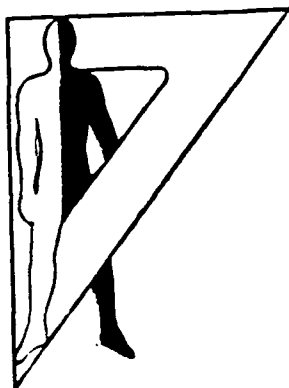


DTIC FILE COPY

4



AD

Technical Note 6-90

# AN INDEXED BIBLIOGRAPHY ON TRACKING

Salvatore P. Schipani

July 1990

AMCMS CODE 612712H700011

DTIC  
ELECTE  
SEP 25 1990  
S B D

Approved for public release;  
distribution is unlimited

U.S. Army Human Engineering Laboratory  
Aberdeen Proving Ground, Maryland

AD-A226 682

Destroy this report when no longer needed.  
Do not return it to the originator.

The findings in this report are not to be construed as an official Department of the Army position unless so designated by other authorized documents.

Use of trade names in this report does not constitute an official endorsement or approval of the use of such commercial products.

UNCLASSIFIED

SECURITY CLASSIFICATION OF THIS PAGE

REPORT DOCUMENTATION PAGE				Form Approved OMB No. 0704-0188	
1a. REPORT SECURITY CLASSIFICATION Unclassified			1b. RESTRICTIVE MARKINGS		
2a. SECURITY CLASSIFICATION AUTHORITY			3. DISTRIBUTION / AVAILABILITY OF REPORT Approved for public release; distribution is unlimited		
2b. DECLASSIFICATION / DOWNGRADING SCHEDULE					
4. PERFORMING ORGANIZATION REPORT NUMBER(S) Technical Note 6-90			5. MONITORING ORGANIZATION REPORT NUMBER(S)		
6a. NAME OF PERFORMING ORGANIZATION Human Engineering Laboratory		6b. OFFICE SYMBOL (if applicable) SLCHE	7a. NAME OF MONITORING ORGANIZATION		
6c. ADDRESS (City, State, and ZIP Code)  Aberdeen Proving Ground, MD 21005-5001			7b. ADDRESS (City, State, and ZIP Code)		
8a. NAME OF FUNDING / SPONSORING ORGANIZATION		8b. OFFICE SYMBOL (if applicable)	9. PROCUREMENT INSTRUMENT IDENTIFICATION NUMBER		
8c. ADDRESS (City, State, and ZIP Code)			10. SOURCE OF FUNDING NUMBERS		
			PROGRAM ELEMENT NO. 6.27.16	PROJECT NO. 1L162716AH	TASK NO. 0
11. TITLE (Include Security Classification) An Indexed Bibliography on Tracking					
12. PERSONAL AUTHOR(S) Schipani, Salvatore P.					
13a. TYPE OF REPORT Final		13b. TIME COVERED FROM _____ TO _____		14. DATE OF REPORT (Year, Month, Day) 1990, July	
15. PAGE COUNT 147					
16. SUPPLEMENTARY NOTATION					
17. COSATI CODES			18. SUBJECT TERMS (Continue on reverse if necessary and identify by block number)		
FIELD	GROUP	SUB-GROUP	tracking target remote		
05	08		compensatory acquisition manipulator		
14	02		pursuit recognition manipulation		
19. ABSTRACT (Continue on reverse if necessary and identify by block number) This document comprises a bibliography about tracking and related literature, with corresponding documentation in the form of indexed author and subject listings. Indexing was performed to enhance its utility as a reference.  Topical subjects were distinguished after a review of citations revealed repeated mention. Generally, tracking is divided into compensatory tracking (such as driving a car while keeping the vehicle within the boundaries of the road) or pursuit tracking (such as aiming a gun at a moving target while keeping the gun sight directly on the target). A complete authors list is included.  This search was partly performed through computer inquiries using the National Technical Service (NTIS) of the U.S. Department of Commerce's "DIALOG" Information Retrieval Service, and the "PSYCINFO" service of the American Psychological Association. (See reverse side)					
20. DISTRIBUTION / AVAILABILITY OF ABSTRACT <input type="checkbox"/> UNCLASSIFIED/UNLIMITED <input checked="" type="checkbox"/> SAME AS RPT. <input type="checkbox"/> DTIC USERS			21. ABSTRACT SECURITY CLASSIFICATION Unclassified		
22a. NAME OF RESPONSIBLE INDIVIDUAL Technical Reports Office			22b. TELEPHONE (Include Area Code) (301) 278-4478		22c. OFFICE SYMBOL SLCHE-SS-TSB

Continuation

19. Abstract

Sources were also manually extracted, including journal articles, Government and private sector reports, conference proceedings, and books. In some instances, direct contact was made with author(s).

The body of literature uncovered was input to a computer, and citations were given individual numbers for corresponding reference to subject(s) and author(s).

Keywords: Tracking bibliographies; Manipulators; Remote control;  
Target acquisition/recognition; Human performance. (RWJ)


Accession For	
NTIS GRA&I	<input checked="" type="checkbox"/>
DTIC TAB	<input type="checkbox"/>
Unannounced	<input type="checkbox"/>
Justification	
By	
Distribution/	
Availability Codes	
Dist	Avail and/or Special
A-1	



# **An Indexed Bibliography on Tracking**

**Salvatore P. Schipani**

**July 1990**

Approved:   
**JOHN D. WEISZ**  
Director  
Human Engineering Laboratory

**Approved for public release;  
distribution is unlimited**

**U.S. Army Human Engineering Laboratory  
Aberdeen Proving Ground, Maryland 21005-5001**

## **PREFACE**

This document comprises a bibliography about tracking and related literature, with corresponding documentation (indexed author and subject listings) to enhance its utility as a reference. This information was initially gathered to support the premise that tracking research should be considered when contemplating the development of military systems for teleoperation scenarios.

## ACKNOWLEDGMENT

The author wishes to express great appreciation to Ms. Priscilla A. Devonshire, Combat Service Support Division, and to Ms. Ruthellen Forrest-Rodgers, Technical Reports Office, U.S. Human Engineering Laboratory (HEL), for technical assistance in preparing this document. Without their diligent efforts, this work would not have been accomplished. Additional appreciation goes to Ms. Joyce Watlington, Services and Support Division, HEL, for providing the vital library services required.

## CONTENTS

INTRODUCTION.....	3
INSTRUCTIONS FOR USE.....	3
SEARCH PROCESS.....	3
Computer Inquiries.....	4
Hand Searches.....	4
Direct Contact.....	5
INDEXING PROCEDURE.....	5
BIBLIOGRAPHY.....	7
AUTHOR INDEX.....	95
SUBJECT INDEX.....	127
TABLES	
1. Key Words.....	4



# AN INDEXED BIBLIOGRAPHY ON TRACKING

## INTRODUCTION

The function of tracking has been best stated as any process by which one tries to maintain a relationship between an index and any freely moving target relative to it, by means of manipulating a control device. Generally, tracking is divided into compensatory tracking (such as driving a car while keeping the vehicle within the boundaries of the road) or pursuit tracking (such as aiming a gun at a moving target while keeping the gun sight directly on the target).

Human factors considerations for tracking implications began to be addressed around the turn of the century. Notable studies such as Birmingham and Taylor (1954) put the human "in-the-loop." In these studies, a human was considered to have a defined transfer function as an element in a servo loop. Later studies revealed man to have a neuromuscular time delay of about 0.17 second and a phase lag with a time constant of 0.10 second. This could be partially minimized by training.

Emphasis, when considering the human factor in tracking, must be given to constructing devices more responsive to the characteristics of the human operator, rather than having the operator adjust to the characteristics of the device. Major operator limitations found while performing in a tracking scenario were (a) perception (visual, auditory, or tactile); (b) the rate at which data may be deciphered and manipulated, causing delays; and (c) reaction time for eliciting responses. Some problems encountered while tracking were (a) predictability (the degree to which the performance of subjects will be similar); (b) learning (discovering how performance changes progressively with practice); and (c) the transfer effect (how practice affects performance on another similar task). To limit error, one must make knowledgeable selections for matching a tracking scenario with the proper control device.

## INSTRUCTIONS FOR USE

To use this document as a research tool, the reader is first referred to the author index (see page 95) or subject index (see page 127), depending on the desired method of search. The citation reference numbers associated with authors and subjects in these indices correspond to articles that mention a specific author or subject. For example, if tracking literature pertaining to the entry "acuity" is desired, a subject index search for "acuity" will reveal this term mentioned in articles number 0040, 0132, 0353, and 0354. The reader should then locate these articles by their reference numbers listed numerically in the "bibliography" (see page 7).

## SEARCH PROCESS

The search process for covering the available literature about tracking entailed the use of several sources. Specifically, books, scientific journals, technical reports, and conference proceedings were examined via computer inquiries of on-line literature data bases, hand library searches, cross-referencing, and direct contact with researches to identify appropriate items to be included.

### Computer Inquiries

Searches were conducted using key words associated with tracking. Key words used are listed in Table 1. The DIALOG System was used to access the National Technical Information Service (NTIS) holdings.

Table 1  
Key Words

---

Tracking
Compensatory
Pursuit
Compensatory or pursuit
Target
Acquisition
Recognition
Target and acquisition or recognition
Remote
Manipulator
Remote with manipulator
Manipulation

---

## Hand Searches

Manual extractions of sources were made to supplement the computerized searches. One important reason for conducting this operation is that much of the literature from technical conferences is not listed on automated literature data bases, and scientific journal articles may not reflect the operational terminology that is typically used. Reference lists from articles obtained from the computer and hand searches were also cross-referenced. The following sources were reviewed:

Psychological Abstracts of the American Psychological Association

Dissertation Abstracts International  
(Sciences and Engineering and for the Humanities and Social Sciences)

Annual Review of Psychology

Applied Ergonomics

Ergonomics

Journal of Experimental Psychology

Perceptual and Motor Skills

Psychological Bulletin

Human Factors

Psychological Review

Proceedings of the Annual Meetings of the Human Factors Society

The Institute of Electrical and Electronics Engineers (IEEE) Conference Proceedings

## Direct Contact

Researchers, who are published or cited frequently in pertinent literature, were contacted whenever possible.

## INDEXING PROCEDURE

Citations are listed alphabetically and are assigned a distinct identification number (0001-1257). Two indices using these identification numbers were constructed. The first is a complete listing of all authors, and the second is by subject and subtopical area. It is hoped that the indices will increase the use of this document.

## BIBLIOGRAPHY

- 0001 Abdel-Malek, A., & Marmarelis, V. Z. (1988). Modeling of task-dependent characteristics of human operator dynamics pursuit manual tracking. IEEE Transactions on Systems, Man, and Cybernetics, 18(1), 163-172.
- 0002 Abernethy, C. N., III, & Sussman, D. E. (1974). Laboratory evaluation of alcohol safety interlock systems. Volume I. Summary report (Report No. DOT-TSC-NHTSA-73-3-VOL-1; DOT-HS-800 925). Cambridge, MA: Transportation Systems Center
- 0003 Abrams, M. L., & Grice, J. K. (1976). Effects of practice and positional variables in acquisition of a complex psychomotor skill. Perceptual and Motor Skills, 43, 203-211.
- 0004 Acker, W., & Toone, B. (1978). Attention, eye tracking and schizophrenia. British Journal of Social and Clinical Psychology, 17(2), 173-181.
- 0005 Acosta, H. M. (1980). Control device manipulative behavior, arousal and performance during a compensatory tracking task (Report No. AFIT/CI/NR-80-83T). Wright-Patterson Air Force Base, OH: U.S. Air Force Institute of Technology.
- 0006 Adams, A. J., Brown, B., Flom, M. C., Jamolsky, A., & Jones, R. T. (1975). Influence of socially used drugs on vision and vision performance (Report No. 751). San Rafael, CA: Visual Sciences Division, Optical Sciences Group.
- 0007 Adams, J. A. (1954). Psychomotor performance as a function of intertrial rest interval. Journal of Experimental Psychology, 48(2), 131-133.
- 0008 Adams, J. A. (1956). Some implications of Hull's theory for human motor performance. Journal of General Psychology, 55, 189-198.
- 0009 Adams, J. A. (1971). A closed-loop theory of motor learning. Journal of Motor Behavior, 3, 111-149.
- 0010 Adams, J. A. (1976). Learning and memory: An introduction. Homewood, IL: Dorsey Press.
- 0011 Adams, J. A., & Creamer, L. R. (1962). Proprioception variables as determiners of anticipatory timing behavior. Human Factors, 4(4), 217-222.
- 0012 Adams, J. A., & Webber, C. E. (1963). A Monte Carlo method of tracking behavior. Human Factors, 5(1).
- 0013 Adams, J. J. (1966). Pilot response in multiloop tracking tasks in combination with side tasks. The 2nd Annual NASA University Conference on Manual Control, NASA SP-128, 205.

- 0014 Adams, J. L. (1961). An investigation of the effects of time lag due to long transmission distances upon remote control (Technical Report). Washington, DC: National Aeronautics and Space Administration
- 0015 Adier, A., Strasser, H., & Muller-Limmroth, W. (1976). Effects of massed and distributed practice, additional monetary and placebo incentives, and changes in characteristics on control element during learning of human motor control. Perceptual and Motor Skills, 42, 1335-1338.
- 0016 Aeronautics, Bureau of (1951). Flight controls human dynamic response study (Report No. AR-61-6). San Diego, CA: Bureau of Aeronautics.
- 0017 Aeronautics, Bureau of. (1954). Fundamentals of design of piloted aircraft flight control systems: Volume 3. The human pilot (BuAer.Report AE-61-4).
- 0018 Agarwal, G. C., & Gottlieb, G. L. (1969). Analysis of step tracking in normal human subjects. IEEE Transactions on Man-Machine Systems, MMS-10(4), 132.
- 0019 Albers, J. W., Potvin, A. R., Tourtellotte, W. W., & Pew, R. W. (1970). Investigation of physiological and pathological tremors. Proceedings of the 23rd Annual Conference on Engineering in Medicine and Biology, 12, 235.
- 0020 Allan, J. R., & Gibson, T. M. (1979). Separation of the effects of raised skin and core temperature on performance of a pursuit rotor task. Aviation, Space, and Environmental Medicine, 50, 687-682.
- 0021 Allen, R. W., & Jex, H. R. (1972). A simple fourier analysis technique for measuring the dynamic response of manual control systems. IEEE Transactions on Systems, Man, and Cybernetics, SMC-2(5), 638-643.
- 0022 Allen, R. W., Jex, H. R., & Magdaleno, R. E. (1973). Manual control performance and dynamic response during sinusoidal vibration (Report No. STI-TR-1013-2; AMRL-TR-73-78). Hawthorne, CA: Systems Technology.
- 0023 Allen, R. W., & Jex, H. R. (1973). Visual-motor response of crewmen during a simulated 90-day space mission as measured by the critical task battery (Report No. NASA-CR-2240). Hawthorne, CA: Systems Technology.
- 0024 Allen, W. H., Interian, A., & Kugath, D. A. (1969). A remote manipulator system for space applications. International Symposium on Man-Machine Systems. (IEEE Conference Record No. 69C58-MMS.)
- 0025 Allport, D. A., Antonis, B., & Reynolds, P. (1972). On the division of attention: A disproof of the single channel hypothesis. Quarterly Journal of Experimental Psychology, 24, 225-235.
- 0026 Alluisi, E. A., Hawkes, G. R., & Hall, T. J. (1964). Effect of distortion on the identification of visual forms under two levels of multiple-task performance. Journal of Engineering Psychology, 3(2).
- 0027 Ammons, R. B. (1950). Acquisition of motor skill: III. Effects of initially distributed practice on rotary pursuit performance. Journal of Experimental Psychology, 40, 777-787.

- 0028 Ammons, R. B. (1955). Rotary pursuit apparatus: I. Survey of variables. Psychological Bulletin, 52, 69-76.
- 0029 Anderson, D. M. (1964). The comparison and evaluation of multi-axis tracking controls (Report No. IMP.FI.2-3). Hayes, Middlesex, England: E.M.I. Electronics.
- 0030 Ando, K., Johanson, C. E., & Schuster, C. R. (1987). The effects of ethanol on eye tracking in rheses monkeys and humans. Pharmacology, Biochemistry and Behavior, 26(1), 103-109.
- 0031 Andreas, B. G. (1953). Bibliography of perceptual-motor performance under varied display-control relationships (Contract AF 30 (602) -200, Scientific Report No. 1). Rochester, NY: University of Rochester.
- 0032 Andreas, B. G., Green, R. F., & Spragg, S. D. S. (1954). Transfer effects between performance on a following tracking task and a compensatory tracking task. Journal of Psychology, 37, 173-183.
- 0033 Andreas, B. G., Murphy, D. P., & Spragg, S. D. S. (1955). Speed of target acquisition as functions of knob vs. stick control, positioning vs. velocity relationship, and scoring tolerance (Contract AF 30 (602) -200, Scientific Report No. 3). Rochester, NY: University of Rochester
- 0034 Andreas, B. G., & Weiss, B. (1954). Review of research on perceptual motor performance under varied display control relationships (Contract AF 30 (602) -200, Scientific Report No. 2). Rochester, NY: University of Rochester
- 0035 Andrew, G. M. (1953). The frequency response and the transfer functions of the human pilot (Technical Report No. AFFTC 52-28). Edwards Air Force Base, CA: U.S. Air Force Flight Test Center
- 0036 Angel, E. S., & Bekey, G. A. (1968). Adaptive finite-state models of manual control systems. IEEE Transactions on Man-Machine Systems, MMS-9(1), 15.
- 0037 Armstrong, J. W. (1980). The effects of concurrent motor tasking on performance of a voice recognition system. Monterey, CA: U.S. Naval Postgraduate School
- 0038 Ashworth, B. R., Mckissick, B. T., & Parrish, R. V. (1984). Effects of motion base and G-seat cueing of simulator pilot performance (Report No. 1.60:2247; L-15559; TP-2247). Hampton, VA: National Aeronautics and Space and Administration, Langley Research Center.
- 0039 Atanasoff, J. V. (1965). A study of anti-aircraft tracking (Final Report OEM 165). Office of Scientific Research and Development.
- 0040 Ayres, T. J., & Hughes, P. (1986). Visual acuity with noise and music at 107 dbA. Journal of Auditory Research, 26(1), 65-74.
- 0041 Bacon, J. H., & Wallach, H. (1982). Adaptation in motion perception: Alteration of motion evoked by ocular pursuit. Perception and Psychophysics, 31(3), 251-255.

- 0042 Bacon, S. J. (1974). Arousal and the range of cue utilization. Journal of Experimental Psychology, 102(1), 81-87.
- 0043 Bahill, A. T., Iandolo, M. J., & Troost, B. T. (1980). Smooth pursuit eye movements in response to unpredictable target waveforms. Vision Research, 29(11), 923-931.
- 0044 Bahill, A. T., & LaRitz, T. (1984). Why can't batters keep their eyes on the ball? American Scientist, 72(3), 249-253.
- 0045 Bahill, A. T., & McDonald, J. D. (1983). Smooth pursuit eye movements in response to predictable target motions. Vision Research, 23(12), 1573-1583.
- 0046 Bahill, A. T., & McDonald J. D. (1983). Model emulates human smooth pursuit system producing zero-latency target tracking (Report No. AFOSR-TR-84-0273). Pittsburgh, PA: Carnegie-Mellon University, Department of Electrical Engineering.
- 0047 Bahrack, H. P. (1957). An analysis of stimulus variables influencing the proprioceptive control of movements. Psychological Review, 64(5), 324-328.
- 0048 Bahrack, H. P., Bennett, W. F., & Fitts, P. M. (1955). Accuracy of positioning responses as a function of spring loading in a control. Journal of Experimental Psychology, 49(6), 437-444.
- 0049 Bahrack, H. P., Fitts, P. M., & Schneider, R. H. (1955). Reproduction of simple movements as a function of factors influencing proprioceptive feedback. Journal of Experimental Psychology, 49(6), 445-454.
- 0050 Bala, S. P. (1977). Eye movements of hyperkinetic children. Dissertation Abstracts International, 37(7-B), 3662.
- 0051 Balakrishna, S. (1976). Time domain and time series models for human activity in compensatory tracking experiments (Report No. NAL-TN-50). Bangalore, India: National Aeronautical Laboratory.
- 0052 Baloh, R. W., Sharma, S., Moskowitz, H., & Griffith, R. (1979). Effect of alcohol and marijuana on eye movements. Aviation, Space, and Environmental Medicine, 50, 18-23.
- 0053 Banasik, R. C., & Rockwell, T. H. (1969). Experimental highway testing of longitudinal control under alternate vehicle rear lighting systems. International Symposium on Man-Machine Systems. (IEEE Conference Record No. 69C58-MMS.)
- 0054 Barba, C. A., Stamper, D. A., Penetar, D. N., & Molchany, J. W. (1987). Effects of the M17A2 protective mask on human pursuit tracking performance (Report No. LAIR-250). Presidio of San Francisco, CA: Letterman Army Institute of Research.
- 0055 Barnes, G. R. (1984). The effects of ethyl alcohol on visual pursuit and suppression of the vestibulo-ocular reflex. Acta Oto-Laryngologica. Suppl 406, 161-166.

- 0056 Baron, S., Kleinman, D. L., & Levison, W. H. (1969). A model for human controller remnant. IEEE Transactions on Man-Machine Systems, MMS-10(4), 101.
- 0057 Baron, S., & Berliner, J. E. (1974). MANMOD: A computer program for statistical analysis of dynamical systems involving man as a controller (Report No. BBN-2704; RD-74-4). Cambridge, MA: Bolt Beranek and Newman.
- 0058 Barr, C. C., Schultheis, L. W., & Robinson, D. A. (1976). Voluntary, non-visual control of the human vestibulo-ocular reflex. Acta Oto-Laryngologica, 81(5-6), 365-375.
- 0059 Barret, G. V., Cabe, P. A., Kerber, H. E., & Thornton, C. L. (1969). Evaluation of a motion simulator not requiring cockpit motion. Human Factors, 11(3), 239.
- 0060 Bartfai, A. (1985). Smooth pursuit eye-tracking neuropsychological tests and computer tomography of the brain in schizophrenic patients (Report No. 596). Sweden: University of Stockholm, Department of Psychology.
- 0061 Bartfai, A. (1985). Smooth pursuit eye tracking, neuropsychological test performance, and computed tomography in schizophrenia. Psychiatry Research, 15(1), 49-62.
- 0062 Bartram, D., Banerji, N., Rothwell, D., & Smith P. (1985). Task parameters affecting individual differences in pursuit and compensatory tracking performance. Ergonomics, 28(12), 1633-1652.
- 0063 Bartz, A. E. (1979). Information transmission during eye movements. Human Factors, 21(3), 331-336.
- 0064 Baty, D. L. (1969). Effects of display gain on human operator information processing rate in a rate control tracking task. IEEE Transactions on Man-Machine Systems, MMS-10(4), 123.
- 0065 Bauchmoyer, S. L. (1975). The effects of social reinforcement and experimenter sex on the performance of college women on a novel motor task. Dissertation Abstracts International, 35(7-A), 4038.
- 0066 Beirness, D. J., & Vogel-Sprott, M. D. (1982). Does prior skill reduce alcohol-induced impairment? Journal of Studies on Alcohol, 43(11), 1149-1156.
- 0067 Bekey, G. A. (1962). An investigation of sampled-data models of the human operator in a control system (ASD-TDR-62-36). Wright-Patterson Air Force Base, OH: Wright Air Development Center.
- 0068 Bekey, G. A. (1962). A survey of techniques for the analysis of sampled-data systems with a variable sampling rate (ASD-TSR-62-35). Wright-Patterson Air Force Base, OH: Wright Air Development Center.
- 0069 Bekey, G. A., & Angel, E. S. (1966). Asynchronous finite state models of manual control systems. The 2nd Annual NASA University Conference on Manual Control, NASA SP-128, 25.



- 0070 Bekey, G. A., Meissinger, H. F., & Rose, R. E. (1965). Mathematical models of human operators in simple two-axis manual control systems. IEEE Transactions on Human Factors in Electronics, HFE-6(1), 42.
- 0071 Bekey, G. A., Meissinger, H. F., & Rose, R. E. (1965). A study of model matching techniques for the determination of parameters in human pilot models (Contractor Report 143). Washington, DC: National Aeronautics and Space Administration.
- 0072 Bekey, G. A., & Phatak, A. V. (1969). Model of the adaptive behavior of the human operator to a sudden change in the control situation. IEEE Transactions on Man-Machine Systems, MMS-10(3), 72.
- 0073 Belanger, P. R. (1962). Time-varying characteristics of the human operator in an open loop (Report No. 8055-4). Cambridge, MA: Massachusetts Institute of Technology, Department of Mechanical Engineering.
- 0074 Bender, J. G., Fenton, R. E., & Rule, R. G. (1969). A driver-automatic system interface. International Symposium on Man-Machine Systems. (IEEE Conference Record No. 69C58-MMS.)
- 0075 Benel, R. A., & Storm W. F. (1975). Neptune: Modifications and current applications. USAF School of Aerospace Medicine, 75(20), 39.
- 0076 Benepe, O. J., Narasimhan, R., & Ellson, D. G. (1954). An experimental evaluation of the application of harmonic analysis to the tracking behavior of the human operator (Technical Report 53-384). Wright-Patterson Air Force Base, OH: Wright Air Development Center.
- 0077 Benfari, R. C., & Voss, H. A. (1964). Target recognition as a function of viewing. Journal of Engineering Psychology, 3(2).
- 0078 Benignus, V. A., Muller, K. E., Barton, C. N., & Prah, J. D. (1987). Effect of low level carbon monoxide on compensatory tracking and event monitoring. Neurotoxicology and Teratology, 9(3), 227-234.
- 0079 Benson, A. J., Huddleston, J. H. F., & Rolfe, J. M. (1965). A psychophysiological study of compensatory tracking on a digital display. Human Factors, 7(5), 457.
- 0080 Bergeron, H. P. (1970). Investigation of motion requirements in compensatory control tasks. IEEE Transactions on Man-Machine Systems, MMS-11(2), 123.
- 0081 Bergeron, H. P., Kincaid, J. K., & Adams, J. J. (1965). Measured human transfer functions in simulated single-degree-of-freedom nonlinear control systems (Technical Note D-2569). Washington, DC: National Aeronautics and Space Administration.
- 0082 Bergman, C. A., Sivier, K. R., & Roscoe, S. N. (1973). Control authority with a flight performance controller. Proceedings of the 17th Annual Meeting of the Human Factors Society, Santa Monica, CA.

- 0083 Berkhout, J. (1981). Reduction of error in multiple response function tracking (ARI Technical Report MDA903-80-C-0313). Vermillion, SD: University of South Dakota, Human Factors Laboratory.
- 0084 Berkhout, J. (1982). Incorporation of human performance measurement capability in the NADC CREST facility (Technical Report). Warminster, PA: U.S. Naval Air Development Center, Human Factors Engineering Division.
- 0085 Berkout, J., & Stedman, M. E. (1983). Tracking with multiple independent response functions. Proceedings of the 27th Annual Meeting of the Human Factors Society, 2, 668-670
- 0086 Bernotat, R. K. (1970). Rotation of visual reference systems and its influence on control quality. IEEE Transactions on Man-Machine Systems, MMS-11(2), 129.
- 0087 Bernstein, N. (1967). The co-ordination and regulation of movements. New York: Pergamon.
- 0088 Besco, R. O., McElwain, C. S., & Bauerschmidt, D. K. (1963). Studies of manual attitude control: Control device/display content comparisons. IEEE Transactions, HFE-4(1).
- 0089 Beshir, M. Y. (1986). Time-on-task period for unimpaired tracking performance. Ergonomics, 29(3), 423-431.
- 0090 Beshir, M. Y., El-Sabagh, A. S., & El-Nawawi, M. A. (1981). Time on task effect on tracking performance under heat stress. Ergonomics, 24(2), 95-102.
- 0091 Binias, G. (1979). Formation tracking. Part 2. Tracking and control procedures (Report No. FFM-279-PT-2). Werthhoven, Federal Republic of Germany: Forschungsinstitut fuer Funk und Mathematik.
- 0092 Birch, L. L., (1978). Baseline differences, attention, and age differences in time-sharing performance. Journal of Experimental Child Psychology, 25(3), 505-513.
- 0093 Birmingham, H. P. (1950). Comparison of a pressure and moving joystick (Interim Report S-3600-330A/50). Washington, DC: U.S. Naval Research Laboratory.
- 0094 Birmingham, H. P., Kahn, A., & Taylor, F. V. (1954). A demonstration of the effects of quickening in multiple-coordinate control tasks (Report No. 4380). Washington, DC: U.S. Naval Research Laboratory.
- 0095 Birmingham, H. P., & Taylor, F. V. (1954). A human engineering approach to the design of man-operated continuous control systems (Report No. 4333). Washington, DC: U.S. Naval Research Laboratory.
- 0096 Bittencourt, P. R., Smith, A. T., Lloyd, D. S., & Richens, A. (1982). Determination of smooth pursuit eye movement velocity in humans by computer. Electroencephalography and Clinical Neurophysiology, 54(4), 399-405.
- 0097 Black, J. L., Collins, D. W., De Roach, J. N., & Zubrick, S. R. (1984). Smooth pursuit eye movements in normal and dyslexic children. Perceptual and Motor Skills, 59(1), 91-100.

- 0098 Blechschmidt, C. C., & Clark, C. (1964). Design and tests of the martin "Powercrane" handheld extravehicular propulsion unit (Martin Ballymore Engineering Report No. 13669). Baltimore, MD: Martin Marietta.
- 0099 Blick, D. W., Bennett, C. T., & Murphy M. R. (1984). Primate equilibrium performance and diazepam: A behavioral tolerance effect (TP-84-286). Dayton, OH: U.S. Air Force School of Aerospace Medicine, Systems Research Laboratories.
- 0100 Bloom, K. R., & Zwick, H. (1987). Visual input requirements relating to pursuit tracking accuracy (Report No. LAIR-241). Presidio of San Francisco, CA: Letterman Army Institute of Research.
- 0101 Bloomfield, J. R. (1972). Visual search in complex fields: Size differences between target disc and surrounding disc. Human Factors, 14(2) 139-148.
- 0102 Boswick, D. S., & Ellis, N. C. (1974). Tracking decrement as a result of grip holding endurance. Ergonomics, 17(1), 51-57.
- 0103 Boesser, T. (1982). Risk and decision processes in manual control behavior. Proceedings of the 18th Annual Conference on Manual Control, AD-A131, 5-18.
- 0104 Bollen, E. L., Roos, R. A., Cohen, A. P., & Minderaa, R. B. (1988). Oculomotor control in Gilles de la Topurette syndrome. Journal of Neurology, Neurosurgery and Psychiatry, 51(8), 1081-1083.
- 0105 Book, W. J. (1973). Study of design and control of remote manipulators, Part 2: Vibration considerations in manipulator design (Report No. DSR 73784-2, [NASA-CR-124189], N73-220138). Cambridge, MA: Massachusetts Institute of Technology, Engineer Projects Laboratory.
- 0106 Bowen, H. M. (1967). The imp in the systems. Ergonomics, 10(2), 112.
- 0107 Bowen, H. M., Anderson, B., & Promisel, D. (1966). Studies of divers' performance during the SEALAB II project. Human Factors, 8(3).
- 0108 Bowen, J. H., & Chernikoff, R. (1958). The effects of magnification and average course velocity on compensatory tracking (Report No. 5186). Washington, DC: U.S. Naval Research Laboratory.
- 0109 Bowen, J. H., & Chernikoff, R. (1957). The relationships between magnification and course frequency in compensatory aided tracking (Report No. 4913). Washington, DC: U.S. Naval Research Laboratory.
- 0110 Boyd, E. T., Duckstein, L., & Unwin, E. A. (1970). Variable perception time in car following and its effect on model stability. IEEE Transactions on Man-Machine Systems, 11(3), 149.
- 0111 Bradley, D. R. (1977). The apparent size of the path traversed by a rotating target during saccadic and smooth pursuit: New data on the shrinking circle illusion. Perception and Psychophysics, 22(2), 183-190.

- 0112 Bradley, D. R., & Godiksen, E. B. (1984). The "shrinking circle illusion" is a shrinking ellipse. Perception, 13(2), 207-212.
- 0113 Bradley, J. V. (1954). Control-display association preferences for ganged controls (Technical Report 54-379). Wright-Patterson Air Force Base, OH: Aero Medical Laboratory, Wright Air Development Center.
- 0114 Bradley, J. V. (1954). Desirable control-display relationships for moving scale instruments (Technical Report 54-423). Wright-Patterson Air Force Base, OH: Aero Medical Laboratory, Wright Air Development Center.
- 0115 Bradley, J. V. (1969). Effect of gloves on control operation time. Human Factors, 11(1), 13.
- 0116 Bradley, J. V. (1957). Glove characteristics influencing control manipulability (Technical Report 57-389). Wright-Patterson Air Force Base, OH: Aero Medical Laboratory, Wright Development Center.
- 0117 Braune, R., & Wickens, C. D. (1986). Time-sharing revisited: Test of a componential model for the assessment of individual differences. [Special issue: Aviation psychology]. Ergonomics, 29(11), 1399-1414.
- 0118 Brezinova, V., & Kendell, R. E. (1977). Smooth pursuit eye movements of schizophrenics and normal people under stress. British Journal of Psychiatry, 130, 59-63.
- 0119 Brickner, M., & Gopher, D. (1981). Improving time-sharing performance by enhancing voluntary control on processing resources (Report No. HEIS-81-3; AFOSR-TR-82-0633). U.S. Air Force: Industrial Safety Research.
- 0120 Brictson, C. A. (1969). Empirical measures of pilot/aircraft control during final approach to carrier landing. International Symposium on Man-Machine Systems. (IEEE Conference Record No. 69C58-MMS.)
- 0121 Brictson, C. A., Ciavarelli, A. P., & Wulfeck, J. W. (1969). Operational measures of aircraft carrier landing system performance. Human Factors, 11(3), 281.
- 0122 Bridgeman, B., Mayer M., & Glenn, L. (1976). Figure distortion accompanying pursuit eye movements. Vision Research, 16(4), 431-433.
- 0123 Briggs, G. E., Bahrck, H. P., & Fitts, P. M. (1957). The influence of force and amplitude cues on learning and performance in a complex tracking task (Technical Note 57-33). Wright-Patterson Air Force Base, OH: U.S. Air Force Personnel and Training Research Center.
- 0124 Briggs, G. E., Fitts, P. M., & Bahrck, H. P. (1958). Transfer effects from a single to a double integral tracking system. Journal of Experimental Psychology, 55 135-142.
- 0125 Briggs, G. E., & Wiener, E. L. (1959). Fidelity of simulation: I. Time sharing requirements and control loading as factors in transfer of training (Technical Report

NAVTRADEVCEEN 508-4). Orlando, FL: U.S. Naval Training and Development Center.

- 0126 Briggs, N. L. (1966). Directional guidance of motor vehicles - A preliminary survey and analysis. Ergonomics, 9(3), 193.
- 0127 Briggs, P., & Hofmann, L. G. (1970). The application of human operator describing function theory to the prediction of tracking performance in the cheyenne swiveling gunner's station (Technical Report). Cambridge, MA: Massachusetts Institute of Technology.
- 0128 Broadbent, D. E. (1958). Perception and communication. London: Pergamon Press.
- 0129 Broadhurst, A., & Eysenck, H. J. (1973). Pursuit rotor reminiscence in schizophrenics and normals. Journal of Motor Behavior, 5(2), 73-80.
- 0130 Brooks, V. B., Reed, D. J., & Eastman, M. J. (1978). Learning of pursuit visuo-motor tracking by monkeys. Physiology and Behavior, 21(6), 887-892.
- 0131 Brown, G., & Campbell, D. (1948). Principles of servomechanisms. London: Chapman and Hall.
- 0132 Brown, J. L. (1964). Time required for detection of acuity targets following exposure to short adapting flashes. Journal of Engineering Psychology, 3(2).
- 0133 Buck, L. (1975). Sleep loss effects on movement time. Ergonomics, 18(4), 415-425.
- 0134 Buck, L. (1977). Circadian rhythms in step-input pursuit tracking. Ergonomics, 20(1), 19-31.
- 0135 Buck, L. (1979). The sensory basis of target location. Quarterly Journal of Experimental Psychology, 31, 111-120.
- 0136 Buck, L. (1980). Circadian rhythms of performance among workers in the Arctic. Aviation, Space, and Environmental Medicine, 51(8), 805-808.
- 0137 Buck, L. (1980). Motor performance in relation to control-display gain and target width. Ergonomics, 23(6), 579-589.
- 0138 Buck, L. (1982). Location vs. distance in determining movement accuracy. Journal of Motor Behavior, 14(4), 287-300.
- 0139 Buck, L. (1986). Target location effects in tapping tasks. Acta Psychologica, 62(1), 1-13.
- 0140 Buck, L., Leonardo, R., & Hyde, F. (1978). Le'Stressalyser'du CNRC: Une tache de poursuite polyvalente qui se destine aux etudes au dedans et au dehors du laboratoire [The NRC stressalyser. A general-purpose pursuit tracking task for field and laboratory studies] (Report No. DME-ML-6; NRC-16827) Canada: National Research Council of Canada Ottawa (Ontario), Division of Mechanical Engineering.

- 0141 Buck, L., Leonardo, R., & Hyde, F. (1981). Measuring impaired performance with the NRC "stressalyser." Applied Ergonomics, 12(4), 231-236.
- 0142 Buckhout, R. (1964). Effect of whole body vibration on human performance. Human Factors, 6(2).
- 0143 Buettner, M., Krischer, C. C., & Meissen, R. (1985). Characterization of gliding text as a reading stimulus. Bulletin of the Psychonomic Society, 23(6), 479-482.
- 0144 Buhler, F. T., & Loucks, B. E. (1973). Laser touch entry device. NEREM 73 Record Part 4: Displays, IEEE Catalog No. 73 CHO 842-5 NEREM, 148-155.
- 0145 Burger, G. C. E. (1969). Heart rate and the concept of circulatory load. Ergonomics, 12(6), 857.
- 0146 Burke, D., & Gibbs, C. B. (1965). A comparison of free-moving and pressure levers in a positional control system. Ergonomics, 22(1), 11-18.
- 0147 Burke, M. W., Gilson, R. D., & Jagacinski, R. J. (1980). Multi-model information processing for visual workload relief. Ergonomics, 23(10), 961-975.
- 0148 Burnham, D. K., & Dickinson, R. G. (1981). The determinants of visual capture and visual pursuit in infancy. Infant Behavior and Development, 4(4), 359-372.
- 0149 Burrows, A. A. (1965). Control feel and the dependent variable. Human Factors, 7(5), 413.
- 0150 Caldwell, L. S. (1970). Decrement and recovery with repetitive maximal muscular exertions. Human Factors, 12(6), 547.
- 0151 Calhoun, G. L. (1987). Eye and head response to an attention cue in a dual task paradigm (Technical Report 87-033). Wright-Patterson Air Force Base, OH: Aerospace Medical Research Laboratory.
- 0152 Caluda, M. J. (1973). Simulation of the man-machine air-to-air gunnery process (Technical Report 73-2). Eglin Air Force Base, FL: U.S. Air Force Armament Laboratory.
- 0153 Cannon, R. H., Jr., & Eppler, W. G., Jr. (1965). Vector reticle, control action display in manual control of space vehicle attitude. Journal of Spacecraft and Rockets, 2(2).
- 0154 Carl, J. R., & Gellman, R. S. (1987). Human smooth pursuit: Stimulus-dependent responses. Journal of Neurophysiology, 57(5), 1446-1463.
- 0155 Carlson, B. R. (1969). Level of maximum isometric strength and relative load isometric endurance. Ergonomics, 12(3), 429.
- 0156 Caro, P. W., Jr. (1969). Adaptive training - An application to flight stimulation. Human Factors, 11(6), 569.
- 0157 Carretta, T. R. (1987). Time-sharing ability as a predictor of flight training performance (Report No. TP-86-69). Brooks Air Force Base, TX: Human Resources Laboratory.

- 0158 Casey, S. M., Breitmaier, W. A., & Nason, W. E. (1977). Cerebral activation and the placement of visual displays (Report No. 77247-40). Warminster, PA: U.S. Naval Air Development Center, Crew Systems Department.
- 0159 Catalano, J. F. (1973). Effect of perceived proximity to end of task upon end-spurt. Perceptual and Motor Skills, 36(2), 363-372.
- 0160 Catalano, J. F. (1974). End-spurt in addition of numbers. Perceptual and Motor Skills, 39(1), 121-122.
- 0161 Cegalis, J. A., Hafez, H., & Wong, P. S. (1983). What is deviant about deviant smooth pursuit eye movements in schizophrenia? Psychiatry Research, 19(1), 47-58.
- 0162 Cegalis, J. A., & Sweeney, J. A. (1981). The effect of attention on smooth pursuit eye movements of schizophrenics. Journal of Psychiatric Research, 16(3), 145-161.
- 0163 Chambers, R. M. (1961). Control performance under acceleration with side-arm attitude controllers (Report No. MA-6110). Warminster, PA: U.S. Naval Air Development Center.
- 0164 Chambers, R. M. (1967). Field operator performance in acceleration environments. Unusual Environments and Human Behavior, 193-319.
- 0165 Chambers, R. M. (1959). Transfer of training among components within a complex psychomotor task (Report No. MA-5920). Warminster, PA: U.S. Naval Air Development Center.
- 0166 Chao, N. (1978). A multiparameter time domain averaging model of the human operator (Report No. AFOSR-TR-78-0625). Bayside, NY: Queensborough Community College.
- 0167 Chapanis, A., & Groper, B. A. (1968). The effect of the operator's handedness on some directional stereotypes in control-display relationships. Human Factors, 10(4), 303-320.
- 0168 Charipper, B. A. (1959). Ship control VIII. Single-element vs. two-element display in two-dimensional tracking (Technical Report SPD 59-003). Groton, CT: General Dynamics Corporation, Electric Boat Division.
- 0169 Chase, R. A. (1968). Studies on sensory feedback: III. The effects of display gain on tracking performance from the neurocommunications unit (Technical Report). Washington, DC: National Institute of Mental Health, Clinical Neuropharmacology Research Center, Saint Elizabeths Hospital.
- 0170 Chawla, S., Konz, S., Sathaye S., & Wadhera, N. (1969). Human factors considerations for a combined brake-accelerator pedal. International Symposium on Man-Machine Systems. (IEEE Conference Record No. 69C58-MMS.)
- 0171 Chernikoff, R., Bowen, J. H., & Birmingham, H. P. (1959). A comparison of zero-order and fourth-order aided compensatory systems as a function of course

- frequency (Report No. 5262). Washington, DC: U.S. Naval Research Laboratory.
- 0172 Chernikoff, R., Duey, J. W., & Taylor, F. V. (1959). Two-dimensional tracking with identical and different control dynamics in each coordinate (Report No. 5424). Washington, DC: U.S. Naval Research Laboratory.
  - 0173 Cherry, N. (1983). The effects of toluene and alcohol on psychomotor performance. Ergonomics, 26(11), 1081-1087.
  - 0174 Childress, D. S. (1970). Application of robot techniques to limb prosthetics. Proceedings of the 23rd Annual Conference on Engineering in Medicine and Biology, 12, 245.
  - 0175 Chiles, W. D., Jennings, A. E., & Alluisi, E. A. (1978). The measurement and scaling of workload in complex performance (Report No. AM-78-34). Oklahoma City, OK: Federal Aviation Administration, Civil Aeromedical Institute.
  - 0176 Chiles, W. D., & Jennings, A. E. (1979). Measurement and scaling of workload in complex performance. Aviation, Space, and Environmental Medicine, 50, 376-381.
  - 0177 Clark, C., Scanlan, L. A., & Williges, R. C. (1973). Mixed-factor response surface methodology central-composite design considerations. Proceedings of the 17th Annual Meeting of the Human Factors Society, 241-288.
  - 0178 Clark, H. J. (1966). Control of a remote maneuvering unit during satellite inspection. Human Factors, 8(6), 573.
  - 0179 Clark, H. J. (1966). Optimum angular accelerations for control of a remote maneuvering unit. Human Factors, 8(3), 217.
  - 0180 Clark, H. J. (1965). Space rendezvous using visual cues only. Human Factors, 7(1), 63.
  - 0181 Cliff, R. C. (1973). Attention sharing in the performance of a dynamic dual task. IEEE Transactions on Systems, Man, and Cybernetics, SMC-3(3), 241-248.
  - 0182 Clorfeine, A. S. (1973). Driving under the influence of electronics. IEEE Spectrum, 10(5), 579-584.
  - 0183 Clutton, B. J. (1951). Some alternative control lever arrangements in a compensatory tracking task (Report No. RNP 51/655, OES 199). Cambridge, England: Medical Research Council, Applied Psychology Unit.
  - 0184 Coddling, G. C., & Lavender, C. E. (1965). Knob linkage permits one-hand control of several operations (Technical Brief No. 65-10022, Category No. 05). Washington, DC: National Aeronautics and Space Administration.
  - 0185 Coeterier, J. F. (1971). Individual strategies in ATC freedom and choice. Ergonomics, 14(5), 32-37.
  - 0186 Cohen, A., & Farley, F. H. (1976). Smallest-space analysis of visual pursuit in children. Journal of Motor Behavior, 8(4), 289-295.



- 0187 Cohen, B. J. (1967). Feasibility of a television link for an optical search of the earth's surface from orbit: 2. Control-display relationships (Report No. F992). St. Louis, MO: McDonnell Douglas Corporation.
- 0188 Cohen, B.J. (1968). Feasibility of a television link for an optical search of the earth's surface from orbit: 2. Control-display relationships (Report No. G066). St. Louis, MO: McDonnell Douglas Corporation.
- 0189 Cohen, B. J. (1968). Test plan for image motion stabilization device (Report No. G863). St. Louis, MO: McDonnell Douglas Corporation.
- 0190 Cohen, B. J., Miller, J. T., & Eschenbrenner, A. J. (1969). Image motion stabilization requirements for dynamic visual tasks in space (Report No. G864). St. Louis, MO: McDonnell Douglas Corporation.
- 0191 Cohen, E. (1968). Simulation of aircraft motion. The 12th Annual Meeting of the Human Factors Society, Chicago, IL.
- 0192 Cohen, E. (1970). Is motion needed in flight simulators used for training? Human Factors, 12(1), 75.
- 0193 Cohen, H. S., & Ferrell, W. R. (1969). Human operator decision-making in manual control. IEEE Transactions on Man-Machine Systems, MMS-10(2), 41.
- 0194 Cohen, S., Bradley, D. R., Hoening, P., & Girgus, J. S. (1975). The effect of smooth tracking and saccadic eye movements on the perception of size. Vision Research, 15(1), 49-55.
- 0195 Cohen, S., Bradley, D. R., Hoening, P., & Girgus, J. S. (1975). The effect of smooth tracking tracking and saccadic eye movements on the perception of size: The shrinking circle illusion. Vision Research, 15(1), 49-55.
- 0196 Coleman, A., Marcus, L., & Salibury, L. (1969). Voluntary and automatic control: 1. A myosonic control system: 2. A prosthetic hand with automatic force control. International Symposium on Man-Machine Systems, IEEE Conference Record No. 69C58-MMS.
- 0197 Collins, A. M. (1973). Decrements in tracking and visual performance during vibration. Human Factors, 15(4), 379-393.
- 0198 Collins, W. E. (1976). Some effects of sleep deprivation on tracking performance in static and dynamic environments (Report No. 76-12). Washington, DC: Federal Aviation Administration, Office of Aviation Medicine Report.
- 0199 Conklin, J. E. (1957). Effect of control lag on performance in a tracking task. Journal of Experimental Psychology, 53, 261-268.
- 0200 Cooke, C. R., & Speck, J. P. (1971). Precision aircraft tracking system. Society for Photoptical Instrumentation Engineers Seminar Proceedings, 23, 39-50.
- 0201 Cooley, W. E., & Aiken, E. G. (1963). The accuracy of target axis angle difference judgments. Human Factors, 5(4).

- 0202 Corballis, M. C. (1976). The psychology of left and right. New York: Wiley.
- 0203 Costello, R. G. (1968). The surge model of the well-trained human operator in simple manual control. IEEE Transactions on Man-Machine Systems, MMS-9(1), 2.
- 0204 Costello, R. G., & Higgins, T. J. (1966). An inclusive classified bibliography pertaining to modeling the human operator as an element in an automatic control system. IEEE Transactions on Human Factors in Electronics, 7(4), 174.
- 0205 Cote, D. O., Williges, B. H., & Williges, R. C. (1981). Augmented feedback in adaptive motor skill training. Human Factors, 23(4), 505-508.
- 0206 Cozzone, A. (1988). Capacity of human operator using smart stick controller (Report No. AFIT/GE/ENG/88D-7). Wright-Patterson Air Force Base, OH: U.S. Air Force Institute of Technology, School of Engineering.
- 0207 Craig, D. R. (1949). Effect of amplitude range on duration of responses to step function displacements (Technical Report 5913). Wright-Patterson Air Force Base, OH: Wright Air Development Center, Aero Medical Laboratory.
- 0208 Craig, D. R., & Ellson, D. G. (1948). A comparison of a two-handed and several one-handed control techniques in a tracking task (Memorandum Report No. MCREXD-694-2L). Rome Air Force Base, NY: Air Materiel Command.
- 0209 Craig, D. R., & Ellson, D. G. (1948). A comparison on one-handed and two-handed tracking (Memorandum Report No. MCREXD-694-2M). Rome Air Force Base, NY: Air Materiel Command.
- 0210 Craik, K. J. W. (1947). Theory of the human operator in control systems. I. The operator as an engineering system. British Journal of Psychology, 38, 56-61.
- 0211 Craik, K. J. W. (1948). Theory of the human operator in control systems. II. Man as an element in a control system. British Journal of Psychology, 38, 142-148.
- 0212 Craik, K. J. W. (1963). Psychological and physiological aspects of control mechanisms. Part II. Ergonomics, 6, 419-440.
- 0213 Craik, K. J. W., & Vince, M. A. (1963). Psychological and physiological aspects of control mechanisms with special reference to tank gunnery. Part 1. Ergonomics, 6(1).
- 0214 Crane, H. L., & Sommer, R. W. (1961). Effects of control feel configuration on airplane longitudinal control response (Technical Note D-912). Washington, DC: National Aeronautics and Space Administration.
- 0215 Crawford, B. M. (1964). Joy stick vs. multiple levers for remote manipulator control: Human Factors, 6(1).
- 0216 Crooks, W. H., & Roscoe, S. N. (1973). Varied and fixed error limits in automated adaptive skill training. Proceedings of the 17th Annual Meeting of the Human Factors Society, 272-280.

- 0217 Crooks, W. H. (1974). Varied and fixed error limits in automated adaptive skill training. Dissertation Abstracts International, 34(9-B), 4690.
- 0218 Crossman, E. R. F. W., & Delp, H. P. (1969). Application of Gabor's elementary-signal theorem to estimation of nonstationary human spectral response IEEE Transactions on Man-Machine Systems, MMS-10(4), 118.
- 0219 Crundall, I. & Foddy, M. (1981). Vicarious exposure to a task as a basis of evaluative competence. Social Psychology Quarterly, 44(4), 331-338.
- 0220 Currie, J., Benson, E., Ramsden, B. & Perdices, M. (1988). Eye movement abnormalities as a predictor of the acquired immunodeficiency syndrome dementia complex. Archives of Neurology, 45(9), 949-953.
- 0221 Cushman, W. B., Tangney, J. F., Steinman, R. M., & Ferguson, J. L. (1984). Characteristics of smooth eye movements with stabilized targets. Vision Research, 24(9), 1003-1009.
- 0222 Damos, D. (1986). The effect of using voice generation and recognition systems on the performance of dual tasks. [Special issue: Aviation psychology.] Ergonomics, 29(11), 1359-1370.
- 0223 Damos, D. L. (1978). Development and transfer of timesharing skills. Dissertation Abstracts International, 38(10-B), 5056-5057.
- 0224 Damos, D. L., & Lintern, G. (1979). A comparison of single- and dual-task measures to predict pilot performance (Report No. ENG-PSY-79-2/AFOSR-79-2; AFOSR-TR-80-0325). Illinois University at Urbana-Champaign, Department of Psychology.
- 0225 Damos, D. L., & Smist, T. E. (1980). Individual differences in dual-task performance (Report No. NBDL-M006). State University of New York-Buffalo, Amherst, Department of Industrial Engineering.
- 0226 Damos, D. L., & Wickens, C. D. (1980). The identification and transfer of timesharing skills. Acta Psychologica, 46(1), 15-39.
- 0227 Dander, V. A. (1963). Predicting pilot ratings of multi-axis control tasks from single-axis data: IEEE Transactions Human Factors in Electronics, HFE-4(1).
- 0228 Daniels, R. W., & Graf, C. P. (1979). The influence of keyset interlocks on operator performance (Phase I-Final Report). Freeport, IL: Micro Switch Division Honeywell.
- 0229 Darcus, H. D. (1951). The maximum torques developed in pronation and supination of the right hand. Journal of Anatomy, 85, 55-67.
- 0230 Davall, P. W., & Gill J. M. (1975). A method for the comparative evaluation of visual and auditory displays. American Foundation for the Blind, Research Bulletin, No. 29, 9-21.
- 0231 Davis, M. (1971). Application of fast-time simulation techniques to the study of ATC systems. Ergonomics, 14(5), 661-668.

- 0232 Dean, A. L., Duhe, D. A., & Green, D. A. (1983). The development of children's mental tracking strategies on a rotation task. Journal of Experimental Child Psychology, 36(2), 226-240.
- 0233 DeBra, D. A., Bryson, A. E., Jr., & Powell, J. D. (1973). Advance research in guidance, control and instrumentation (Report No. AFAL-TR-73-288). Stanford, CA: Stanford University, Guidance and Control Laboratory.
- 0234 Decostre-Voisin, M. F., & Meulders, M. (1981). Phi phenomenon, smooth pursuit eye movements and velocity sensitive visual mechanism. Psychologica Belgica, 21(2), 93-110.
- 0235 De Graff, B., & Wertheim, A. H. (1988). The perception of object motion during smooth pursuit eye movements: Adjacency is not a factor contributing to the Filehne illusion. Vision Research, 28(4), 497-502.
- 0236 Dell'Osso, L., Gauthier, G. M., Liberman, G., & Stark, L. (1972). Eye movement recordings as a diagnostic tool in a case of congenital nystagmus. American Journal of Optometry and Archives of American Academy of Optometry, 49(1), 3-13.
- 0237 Del Rey, P., & Steiner, S. (1976). Pursuit-motor performance of deaf and hearing girls. Research Quarterly, 47(2), 184-187.
- 0238 Denton, G. G. (1969). The use made of the speedometer as an aid to driving. Ergonomics, 12(3), 447.
- 0239 Deputy Chief of Staff for Research, Development and Acquisition (U.S. Army), Washington, DC. (1986, June). Proceedings of the Army Science Conference West Point, New York. (Volume 3; principal authors M through R, See Volume 1, Ad-A173-638.)
- 0240 Dickinson, J. (1969). A note on the role of peripheral vision in static balancing. Ergonomics, 12(6), 935.
- 0241 Dietrich, J. M., & Payne, R. B. (1985). Sex and hand-preference factors in psychomotor reminiscence and performance. Bulletin of the Psychonomic Society, 23(3), 205-208.
- 0242 Dimasi, F. P., Allen, R. E., & Calcaterra, P. C. (1972). Effect of vertical active vibration isolation on tracking performance and on ride qualities (Report No. NASA-CR-2146). Watertown, MA: Barry Wright Corporation.
- 0243 Dinan, J. A. (1973). HFTF testing of joystick-stiffstick configurations using test 2 of SYBL. (Memorandum No. JAD: 73/01, 10). Portsmouth, RI: Raytheon Submarine Signal Division.
- 0244 Domey, R. G., & Paterson, D. (1962). Development of a vehicle simulator for evaluating driver performance. Unpublished manuscript. Harvard School of Public Health, Boston.
- 0245 Doorley, R. D., Walker, N. K., Bedard, E. W., & Cushing, J. (1967). Investigation into the rapid training of operators for the M-22 system with the DX-

- 43 simulator (Report No. RH-TR-67-2). Red Stone Arsenal, AL: U. S. Army Military Command.
- 0246 Doorley, R. D., Walker, N. K., Conroy, J., & Rabida, G. (1968). Optimization of the control parameters of a thumb controller for the M-22 weapons system (Report No. RH-TR-68-1; Contract No. DAAH01-67-C-2421). Red Stone Arsenal, AL: U.S. Military Command.
- 0247 Dubois, M. F., & Collewyn, H. (1979). Optokinetic reactions in man elicited by localized retinal motion stimuli. Vision Research, 19(19), 1105-1115.
- 0248 Duey, J. W., & Chernikoff, R. (1959). The use of quickening in one coordinate of a two-dimensional tracking system (Report No. 5428). Washington, DC: U.S. Naval Research Laboratory.
- 0249 Dunbar, S. L. (1982, June). Helicopter integrated controller research. Proceedings of the 18th Annual Conference on Manual Control, Dayton, OH. (AD-A131 256, 466-473.)
- 0250 Dunham, P. (1978). Retention of bilateral performance as a function of practice order. Perceptual and Motor Skills, 46, 43-46.
- 0251 Dunham, P., Allan, R., & Winter, R. (1985). Tracking ability of elementary school-age children. Perceptual and Motor Skills, 60(3), 771-774.
- 0252 Durand, T. S., & Jex H. R. (1962). Handling qualities in single-loop roll tracking tasks: Theory and simulator experiments (Report No. TDR No. ASD-TDR-62-507). Wright-Patterson Air Force Base, OH: Wright Air Development Center.
- 0253 Dureman, E. I., & Boden, C. (1972). Fatigue in simulated car driving. Ergonomics, 15(3), 299-308.
- 0254 Dursteler, M. R., Wurtz, R. H., & Newsome, W. T. (1987). Directional pursuit deficits following lesions of the foveal representation within the superior temporal sulcus of the macaque monkey. Journal of Neurophysiology, 57(5), 1262-1287.
- 0255 Eberhardt, E. H. (1971). The image dissector as an optical tracker. Society for Photooptical Instrumentation Engineers Seminar Proceedings, 23, 145-151.
- 0256 Eckmiller, R. (1983). Neural control of foveal pursuit versus saccadic eye movements in primates: Single-unit data and models. IEEE Transactions on Systems, Man, and Cybernetics, 13(5), 980-989.
- 0257 Edwards, F. G., Lopez, A. E., & Wingrove, R. C. (1969). Some examples of pilot/vehicle dynamics identified from flight test records. IEEE Transactions on Man-Machine Systems, MMS-10(4), 131.
- 0258 Ehlers, T., & Ritter, M. (1984). Effects of the tetracyclic antidepressant pirlindole on sensorimotor performance and subjective condition in comparison to imipramine and duration of ethanol. Neuropsychobiology, 12(1), 48-54.
- 0259 Elkind, J. I. (1953). Tracking response characteristics of the human operator (Technical Report ). Washington, DC: Bolling Air Force Base.

- 0260 Elkind, J. I., & Darley, D. L. (1963). The normality of signals and describing function measurements of simple manual control systems. IEEE Transactions, HFE-4(1).
- 0261 Elkind, J. I., & Green, D. M. (1961). Measurement of time-varying and non-linear dynamic characteristics of human pilot (Report No. ASD-TR-61-225). Wright-Patterson Air Force Base, OH: Wright Air Development Center.
- 0262 Elkind, J. I., Kelly, J. A., & Payne, R. (1964). Adaptive control characteristics of human operator in systems having complex dynamics. Proceedings of the 5th National Symposium on Human Factors in Electronics, San Diego, CA.
- 0263 Elkind, J. I., & Miller, D. C. (1966). Process of adaptation by the human controller. The 2nd Annual NASA University Conference on Manual Control, NASA SP-128, 47.
- 0264 Ellis, H. B. (1977). Line-of-sight stabilization reflector assembly (Report No. PAT-APPL-850-327). Washington, DC: Department of the Air Force.
- 0265 Ellis, M. J., Schmidt, R. A., & Wade, M. G. (1968). Proprioception variables as determinants of lapsed time estimation. Ergonomics, 11(6), 577.
- 0266 Ellis, N. C., Lowes, A. L., Matheny, W. G., & Norman, D. A. (1971) The feasibility of using an adaptive technique in flight simulator training. Ergonomics, 14(3), 381-389.
- 0267 Ellson, D. G., & Gilbarg D. (1949). The application of operational analysis to human motor behavior, Psychological Review, 56, 9-17.
- 0268 Ellson, D. G., & Gray, F. E. (1948). Frequency response of human operators following a sine wave input (Report No. MCHXD-694-2N). Wright-Patterson Air Force Base, OH: Aero Medical Laboratory.
- 0269 Ellson D. G., Hill, H., & Craig, D. R. (1949). The interaction of responses to step function stimuli: 2. Equal opposed steps of varying amplitude (Technical Report 5911). Rome Air Force Base, NY: Air Materiel Command.
- 0270 Ellson, D. G., Hill, H., & Grey, F. E. (1947). Wave length and amplitude characteristics of tracking error curves (Memorandum Report TSEAA-694-2D). Rome Air Force Base, NY: Air Materiel Command.
- 0271 Ellson, D. G., & Wheeler, L. (1949). The range effect (Technical Report 5813). Wright-Patterson Air Force Base, OH: Wright Air Development Center.
- 0272 Ellson, D. G., & Wheeler, L. (1951). Resonance in the human operator (Technical Report 5834). Wright-Patterson Air Force Base, OH: Wright Air Development Center.
- 0273 Ely, J. H., Schneider, R. H., Kelley, C. R., & Channell R. C. (1957). Tracking training: 1. An approach (Report No. 1908-00-1, pp. 240-245). Port Washington, NY: U.S. Naval Training Device Center.

- 0274 Engelken, E. J., & Wolfe, J. W. (1979). A modeling approach to the assessment of smooth pursuit eye movements. Aviation, Space, and Environmental Medicine, 50, 1102-1107.
- 0275 Engelken, E. J., & Wolfe, J. W. (1979). A modeling approach to the assessment of smooth pursuit eye movement. Aviation, Space, and Environmental Medicine, 50, 1102-1107.
- 0276 Enright, J. T. (1985). On pulfrich-illusion eye movements and accommodation convergence during visual pursuit. Vision Research, 25(11), 1613-1622.
- 0277 Equipping a computer with sensory abilities (Staff, 1961). Optical Spectra, 5(6), 10.
- 0278 Falb, P. L., & Kovatch, G. (1966). Dynamic system modeling of human operators - A preliminary report. The 2nd Annual NASA University Conference on Manual Control, NASA SP-128, 345.
- 0279 Farber, N., & Shinar, J. (1979). An approximate solution of singularly perturbed non-linear pursuit-evasion games (Report No. TAE-359). Technion, Israel: Institute of Technology-Haifa, Department of Aeronautical Engineering.
- 0280 Farrell, J. E., Putnam, T., & Shepard, R. N. (1984). Pursuit-locked apparent motion. Bulletin of the Psychonomic Society, 22(4), 345-348.
- 0281 Faubert, D. B. (1971). Hand controller tracking task performance as functions of type controllers, flight maneuvers, lead-lag transfer functions and control sensitivity settings (Technical Memorandum No. 131, p. 11). New York, NY: Westinghouse Aerospace and Electronic Systems, Man-Machine Integration .
- 0282 Fazio, C. P., & Tobias, L. W. (1969). Development of the apollo telescope mount display system. International Symposium on Man-Machine Systems. (IEEE Conference Record No. 69C58-MMS.)
- 0283 Fenton, R. E. (1966). An improved man-machine interface for the driver-vehicle system. Proceedings of the 7th National Symposium on Human Factors in Electronics, New York, NY.
- 0284 Fenton, R. E. (1966). An improved man-machine interface for the driver-vehicle system. IEEE Transactions on Human Factors in Electronics, 7(4), 150.
- 0285 Farnandez, J. H. (1986). The transfer of failure detection skills from training to operational systems. Dissertation Abstracts International, 46(9-B), 3246.
- 0286 Ferrell, W. R. (1966). Delayed force feedback. Human Factors, 8(5), 449.
- 0287 Ferrell, W. R. (1965). Remote manipulation with transmission delay, IEEE Transactions Human Factors in Electronics, 6(1), 24.
- 0288 Ferslew, K. E. (1982). Quantitative relationships between delta-9-tetrahydrocannabinol and human psychomotor and cardiovascular performance. Dissertation Abstracts International, 43(6-B), 1810.

- 0289 Ferslew, K. E. (1982). Pursuit meter II, a computer-based device for testing pursuit-tracking performance. Perceptual and Motor Skills, 54(3, Pt 1), 779-784.
- 0290 Ferslew, K. E. (1983). Determination of fine and coarse pursuit-tracking performance. Perceptual and Motor Skills, 56(3), 683-690.
- 0291 Festinger, L., Sedgwick, H. A., & Holtzman, J. D. (1976). Visual perception during smooth pursuit eye movements. Vision Research, 16(12), 1377-1386.
- 0292 Fineman, T. (1969). Optimum computer aided manual control, abstract. International Symposium on Man-machine Systems. (IEEE Conference Record No. 69C58-MMS.)
- 0293 Fleishman, E. A. (1965). The prediction of total task performance from prior practice on task components. Human Factors, 7, 18.
- 0294 Flexman, R. E., Roscoe, S. N., Williams, A. C., Jr., & Williges, B. H. (1972). Studies in pilot training: The anatomy of transfer. Aviation Research Monographs, 2(1)
- 0295 Flipse, J. P., Van der Wildt, G. J., Rodenburg, M., & Keemink, C. J. (1988). Contrast sensitivity for oscillating sine wave gratings during ocular fixation and pursuit. Vision Research, 28(7), 819-826.
- 0296 Fluhr, F. R. (1959). Digitalized pickoff display converter, (NRL Report 5281). Orlando, FL: U.S. Naval Research Laboratory.
- 0297 Fluhr, F. R. (1965). Light-pencil coordinate positioner, (NRL Memo Report 1592). Orlando, FL: U.S. Naval Research Laboratory.
- 0298 Fluhr, F. R., & McLaughlin, D. J. (1959). The naval data handling system pickoff display converter, (NRL Report 5248). Orlando, FL: U.S. Naval Research Laboratory.
- 0299 Fogel, L. J. (1959). A new concept: The kinalog display system. Human Factors, 1, 30-37.
- 0300 Folkers, C. E. (1988). Visual pursuit and attention in schizophrenia. Dissertation Abstracts International, 48(11-B), 3413.
- 0301 Folley, J. D., Jr. (1961). Research problems in the design of performance aids, (Report No. ASD 61-548). Wright-Patterson Air Force Base, OH: Wright Air Development Center.
- 0302 Foot, H. C. (1969). Visual prediction of the point of coincidence of two moving targets. Ergonomics, 12(5), 723.
- 0303 Ford, A., Rigler, D., & Dugan, G. E. (1949). Point centering experiments: Pantograph radar tracking (Technical Report 5969). Wright-Patterson Air Force Base, Wright Air Defense Command, Air Materiel Command.
- 0304 Forman, W. R. (1967). Remote-control models as submersible simulators, (Report No. NOTS TP 4359). California: U.S. Naval Ordnance Test Station.



- 0305 Forster, P. M., & Grierson, A. T. (1978). Noise and attentional selectivity: A reproducible phenomenon? British Journal of Psychology, 69(4), 489-498.
- 0306 Fowler, C. A., & Turvey, M. T. (1978). Skill acquisition: An event approach with special reference to searching for the optimum of a function of several variables. In G.E. Stelmach (Ed.), Information processing in motor control and learning (pp. 1-40). New York: Academic Press.
- 0307 Fowler, V. J. (1973). The TV camera as a data entry device. NEREM 73 Record Part 4: Displays. IEEE Catalog No. 73 CHO 842-5 NEREM, 156-160.
- 0308 Fox, G. (1968). Cursor positioning-isometric joystick vs track ball. summary of hook control study data (Report No. SYS-68-5). Bethpage, NY: Grumman Aircraft.
- 0309 Fracker, M. L. (1987). Resources, confusions, and compatibility in dual axis tracking: Displays, controls, and dynamics (Report No. AFIT/CI/NR-87-105T). Wright-Patterson Air Force Base, OH: Institute of Technology.
- 0310 Fracker, M. L. (1988). Resources, confusions, and compatibility in dual-axis tracking: Displays, controls, and dynamics. Dissertation Abstracts International, 49(1-B), 250.
- 0311 Fracker, M. L. & Wickens, C. D. (1989). Resources, confusions, and compatibility in dual-axis tracking: displays, controls, and dynamics. Journal of Experimental Psychology: Human Perception and Performance, 15(1), 80-96.
- 0312 Frank, J., & Levinson, H. N. (1975-76). Dysmetric dyslexia and dyspraxia. Academic Therapy, 11(2), 133-143.
- 0313 Frank, J., & Levinson, H. N. (1976). Compensatory mechanisms in C-V dysfunction, dysmetric, dyslexia, and dyspraxia. Academic Therapy, 12(1), 5-27.
- 0314 Franks, I.M. & Wilberg, R.B. (1984). Consistent reproduction of movement sequences during acquisition of a pursuit tracking task. Perceptual and Motor Skills, 58(3), 699-709.
- 0315 Frazier, J. W., Repperger, D. W., Van Patten, R. E., & Goodyear, C. D. (1987). Comparison of tracking performance during by stress between test pilots and panel subjects (Report No. AAMRL-TR-87-018). Dayton, OH: Systems Research Laboratory.
- 0316 Freddie, R. O., Zavala, A., & Fleishman, E. A. (1968). Studies of component-total task relations: Order of component-total task practice and total task predictability. Human Factors, 10(3), 283.
- 0317 Freedy, A., Hull, F. C., Lucaccini, L. F., & Lyman, J. (1971). A computer-based learning system for remote manipulator control. IEEE Transactions on Systems, Man, and Cybernetics, SMC-1(4), 356-363.
- 0318 Freedy, A., Weltman, G., & Steeb, R. (1972). Interactive aspects of man/learning system control teams. Proceedings of the 16th Annual Meeting of the Human Factors Society, 127-135.

- 0319 Freischlag, J. (1973). A comparison of the effects of sex, competition, and ability on a perceptual motor task. Research Quarterly, 44(2), 178-184.
- 0320 Freischlag, J. (1974). Stress in pursuit-rotor performance of men and women physical education majors. Perceptual and Motor Skills, 38(3, Pt. 1), 785-786.
- 0321 French, S. N. (1980). Electromyographic biofeedback for tension control during fine motor skill acquisition. Biofeedback and Self Regulation, 5(2), 221-228.
- 0322 Friedlander, G. D. (1970). At the crossroads in air traffic control: I-The view from the ground. IEEE Spectrum, 7(6), 26.
- 0323 Friedman, M. B., Catalano, J. F., & Lonbardo, J. P. (1985). Relationship between sex-role and acquisition of motor skill. Perceptual and Motor Skills, 61(2), 659-668.
- 0324 Frost, G. G. (1962). A comparison between tracking with optimum dynamics and tracking with a simple velocity control (Technical Report No. AMRL-TDR-62-150). Wright-Patterson Air Force Base, OH: Aerospace Medical Division.
- 0325 Fujita, T., Manvi, R., Roschke, E. J., El-Gabalawi, N., & Herrera, G. (1979). Techno-economic projections for advanced small solar thermal electric power plants to years 1990-2000 (Report No. NASA-CR-158519; JPL-PUB-79-25). Pasadena, CA: Jet Propulsion Laboratory.
- 0326 Fullerton, G. S., & Gattell, J. (1892). On the perception of small differences, with special reference to the extent, force, and time of movement. Philosophical Series No. 2. Philadelphia: University of Pennsylvania Press.
- 0327 Fumoto, N. (1977). Concentration on a task and change in pulse rate and finger skin blood flow. Japanese Journal of Psychology, 48(5), 289-295.
- 0328 Fumoto, N. (1979). Overlearning of a pursuit tracking task and change in pulse rate and finger skin blood flow. Japanese Journal of Psychology, 50(1), 41-44.
- 0329 Fumoto, N. (1981). Asymmetric transfer in a pursuit tracking task related to a change of strategy. Journal of Motor Behavior, 13(3), 197-206.
- 0330 Gaillard, A. W. K., & Boer, L. C. (1984). Standardization of tasks: Approach planning (Report No. IZF-1984-19; TDCK-79518). Soesterberg, Netherlands: Institute for Perception RVO-TNO.
- 0331 Gainer, P. A. (1966). Measured information capacity as performance index in manual tracking tasks. The 2nd Annual NASA-University Conference on Manual Control, NASA SP-128, 131.
- 0332 Gantzer, D. J., & Rockwell T. H. (1968). The effect of discrete headway and relative velocity information on car-following performance. Ergonomics, 11(1).
- 0333 Garner, K. C. (1967). Evaluation of human operator coupled systems. Ergonomics, 10(2), 125.
- 0334 Garret, J. W. (1971). The adult human hand: Some anthropometric and biomechanical considerations. Human Factors, 13(2), 117.

- 0335 Gauthier, G. M., & Hofferer, J. M. (1976). Eye movements in response to real and apparent motions of acoustic targets. Perceptual and Motor Skills, 42(3, Pt 1), 963-971.
- 0336 Geldard, F. A. (1957). Adventures in tactile literacy. American Psychologist, 12(3), 115-124.
- 0337 Geldard, F. A. (1973). Conference on cutaneous systems and devices. Psychomonic Monograph Supplement. Naval Postgraduate School, Monterey, CA.
- 0338 Gerall, A. A., & Green, R. F. (1955). The effect upon performance on a following tracking task of interchanging the direction of display movement controlled by each hand (Technical Report 241-6-24). Orlando, FL: U.S. Navy, Office of Naval Research, Special Devices Center.
- 0339 Gerall, A. A., Sampson, P. B., & Spragg, S. D. S. (1954). Method for studying performance on a simple tracking task as a function of radius and loading of control cranks (Report No. 144). San Antonio, TX: U.S. Army Medical Research Laboratory.
- 0340 Gerlach, O. H. (1987). Biomorphic model of the human operator controlling a single or a double integrator (Report No. LR-505; B8733282). Delft, Netherlands: Technische Hogeschool, Department of Aerospace Engineering.
- 0341 Gibbs, C. B. (1967). Comments on an investigation into the comparative suitability of forearm, hand and thumb controls in acquisition tasks. Ergonomics, 10(4), 431.
- 0342 Gibbs, C. B. (1954). Movement and force in sensori-motor skill. In W. F. Floyd & A. T. Welford (Eds.), Symposium on human factors in equipment design, London: H. K. Lewis.
- 0343 Gibbs, C. B., & Baker, J. C. (1952). Free-moving versus fixed control levers in a manual tracking task. In A. Trustin (Ed.), Automatic and Manual Control (pp. 467-472). London: Butterworths.
- 0344 Gibson, R. D., & Fenton, R. E. (1974). Kinesthetic-tactual information presentations -- In flight studies. IEEE Transactions on Systems, Man, and Cybernetics, 4(6), 531-555.
- 0345 Gifford, R.N., & Lyman, J. (1967). Tracking performance with advanced and delayed visual displays. Human Factors, 9(2), 127.
- 0346 Gilson, R. D., & Fenton, R. E. (1974). Kinesthetic-tactual information presentations: Inflight studies. IEEE Transactions on Systems, Man, and Cybernetics, 4(6), 531-535.
- 0347 Gilson, R. D., Stockwell, C. W., & Guedry, F. E., Jr. (1977). Conditioned suppression of vestibular nystagmus with visual stimuli (Report No. NAMRL-1233). Pensacola, FL: U.S. Naval Aerospace Medical Research Laboratory.

- 0348 Gilstad, D. W., & Fu, K. S. (1971). Two-dimensional adaptive model of a human controller using pattern recognition techniques. IEEE Transactions on Systems, Man, and Cybernetics, SMC-1(3) 261-266.
- 0349 Glenn, F. A., Strieb, M. I., & Wherry, R. J., Jr. (1977). The human operator simulator. Volume VIII. Applications to assessment of operator loading (Technical Report 1233-A). Willow Grove, PA: Analytics Incorporated.
- 0350 Glenny, G., & Heywood, S. (1979). Hans Gertz revisited: The different effects of invisibility and darkness on pursuit eye movements. Perception, 8(1), 31-36.
- 0351 Gliner, J. A., Horvath, S. M., & Mihevic, P. M. (1983). Carbon monoxide and human performance in a single and dual task methodology. Aviation, Space, and Environmental Medicine, 54(8), 714-717.
- 0352 Gold, T. (1964). Quickened manual flight control with external visual guidance (Technical Report). New York: Sperry Gyroscope Company.
- 0353 Goodson, J. E., & Morrison, T. R. (1981). Stimulus determinants of dynamic visual acuity: II. Effects of limiting the target surround (Report No. 1274). Pensacola, FL: U.S. Aerospace Medical Research Laboratory.
- 0354 Goodson, J. E., & Morrison, T. R. (1981). Stimulus determinants of dynamic visual acuity: III. Effects of proximal borders and limited surround (Report No. 1276). Pensacola, FL: U.S. Aerospace Medical Research Laboratory.
- 0355 Gopher, D., Brickner, M., & Navon, D. (1980). Different difficulty manipulations interact differently with task emphasis: Evidence for multiple resources (Report No. HEIS-79-27; AFOSR-TR-81-0292). Technion - Israel: Institute of Technology-Haifa, Center of Human Engineering and Industrial Safety Research.
- 0356 Gopher, D., Brickner, M., & Navon, D. (1982). Different difficulty manipulations interact differently with task emphasis: Evidence for multiple resources. Journal of Experimental Psychology: Human Perception and Performance, 8(1), 146-157.
- 0357 Gopher, D., & Navon, D. (1978). How is performance limited: Testing the notion of central capacity (Report No. HEIS-78-11; AFOSR-TR-81-0291). Technion, Israel: Institute of Technology-Haifa, Center of Human Engineering and Industrial Safety Research.
- 0358 Gopher, D., & Navon, D. (1980). How is performance limited: Testing the notion of central capacity. Acta Psychologica, 46(3), 161-180.
- 0359 Gopher, D., & North, R. A. (1974). The measurement of attention capacity through concurrent task performance with individual difficulty levels and shifting priorities (Report No. ARL-74-13/AFOSR-74-8; AFOSR-TR-0301). Illinois University, Savoy Aviation Research Laboratory.
- 0360 Gopher, D., & North, R. A. (1977). Manipulating the conditions of training in time-sharing performance. Human Factors, 19(6), 583-593.
- 0361 Gopher, D., Williges, B. H., Williges, R. C., & Damos, D. L. (1974). Manipulating the number and type of adaptive variables in training (Report No.

ARL-74-12/AFOSR-74-7; AFOSR-TR-75-0302). Illinois University, Savoy Aviation Research Laboratory.

- 0362 Gopher, D., Williges, B. H., Williges, R. C., & Damos, D. L. (1975). Varying the type and number of adaptive variables in continuous tracking. Journal of Motor Behavior, 7(3), 159-170.
- 0363 Gottlieb, G. L., & Agarwal, G. C. (1971). Control and regulation of the human motor system. IEEE Transaction. on Systems, Man, and Cybernetics, SMC-1(4), 379-383.
- 0364 Gould, E. E., & Fu, K. S. (1966). Adaptive model of the human operator in a time-varying control task. The 2nd Annual NASA-University. Conference on Manual Control, NASA SP-128, 85.
- 0365 Gould, J. D., & Dill, A. B. (1968). Behavioral investigation of various orders of computer controlled scanning of CRT displays. Proceedings of the 12th Annual Meeting of the Human Factors Society, Chicago, IL.
- 0366 Gourishankar, V., & Peppard, L. E. (1972). A method for aiding human operator performance in a non-compensatory tracking task. IEEE Transactions on Systems, Man, and Cybernetics, SMC-2(5), 670-674.
- 0367 Graves, H. C., Bailey, J. A., & Mellen, D. L. (1962). Study and development of an electric side stick for aerospace vehicles (Technical Report ASK-TR-61-603). Wright-Patterson Air Force Base, OH: Flight Control Laboratory.
- 0368 Gray, F. E., & Ellson, D. G. (1947). Effects of friction and mode of operation upon accuracy of tracking with the GE pedestal sight (Report No. TSEAA-694-2C). Wright-Patterson Air Force Base, OH: Air Materiel Command, Aero Medical Laboratory
- 0369 Gray, R., Wilkinson, R. T., Maslen, K. R., & Rowlands, G. F. (1976). The effects of 3 hours of vertical vibration at 5 Hz on the performance of some tasks (Technical Report 76011; BR52057). Farnborough, England: Royal Aircraft Establishment.
- 0370 Greening, C. P., Sweeney, J. S., & Snider, H. L. (1964). A device for remote monitoring of helmet position. Proceedings of the 5th National Symposium on Human Factors in Electronics, San Diego, CA.
- 0371 Gregg, C. L., Haffner, M. E., & Korner, A. F. (1976). The relative efficacy of vestibular-proprioceptive stimulation and the upright position in enhancing visual pursuit in neonates. Child Development, 47(2), 309-314.
- 0372 Grether, W. F. (1946). A study of several design factors influencing pilot efficiency in the operation of controls (Memorandum Report No. 1 TSEAA-694-9). Wright-Patterson Air Force Base, OH: Air Materiel Command.
- 0373 Grether, W. F., Harris, C. S., Ohlbaum, M., Sampson, P. B., & Guignard, J. C. (1972). Further study of combined heat, noise and vibration stress. Aerospace Medicine, 43(6), 641-645.

- 0374 Grignetti, M. C., & Elkind, J. I. (1966). Analysis and prediction of performance of a digital computer facility for flight simulation studies. The 2nd Annual NASA University Conference on Manual Control, NASA SP-128, 413.
- 0375 Groth, H., & Lyman, J. (1963). Measurement methodology for perceptual-motor performance under highly transient extreme heat stress: Human Factors, 5(4).
- 0376 Ground control guides manned aircraft (Aviation Staff) (1973). Aviation Week and Space Technology, 98(4), 65.
- 0377 Gschwind, R. T. (1963). Gunner tracking behavior as a function of three different control systems (Technical Memorandum 2-63). Aberdeen Proving Ground, MD: U.S. Army Human Engineering Laboratory.
- 0378 Guedry, F. E., Jr., Davenport, K. S., Brewton, C. B. & Turnipseed, G. T. (1979). The pendular eye tracking test under two background viewing conditions (Report No. 1257). Pensacola, FL: U.S. Naval Aerospace Medical Research Laboratory.
- 0379 Guericio, J. G., & Wall, R. L. (1972). Congruent and spurious motion in the learning and performance of a compensatory tracking task. Human Factors, 14(3), 259-269.
- 0380 Gydikov, A. (1967). Sampling with adjustable frequency in the hand movement control system. IEEE Transactions on Human Factors in Electronics, HFE-8(2).
- 0381 Hackford, R. H., Jr. (1972). Analysis of piloted weapon delivery: F-4E aerial gunnery (Report No. GGC/EE/72-3). Wright-Patterson Air Force Base, OH: U.S. Air Force Institute of Technology, School of Engineering.
- 0382 Haegerstrom-Portnoy, G., & Brown, B. (1979). Contract effects on smooth-pursuit eye movement velocity. Vision Research, 19(2), 169-174.
- 0383 Hagan, S. J. (1979). Pursuit tracking skill as a joint function of practice, work, and rest variables. Dissertation Abstracts International, 39(12-B), 6159.
- 0384 Hagan, S. J., Wilkerson, H. R., & Noble, C. E. (1980). Pursuit tracking skill as a joint function of work and rest variables. Perceptual and Motor Skills, 50(3, Pt 1), 683-697.
- 0385 Hahn, J. F. (1965). Unidimensional compensatory tracking with a vibrotactile display. Perceptual and Motor Skills, 21, 699-702.
- 0386 Hammerton, M., & Tickner, A. H. (1966). An investigation into the comparative suitability of forearm, hand and thumb controls in acquisition tasks. Ergonomics, 9(2), 125-130.
- 0387 Hammerton, M. (1967). Visual factors affecting transfer of training from a simulated to a real condition. Journal of Applied Psychology, 51, 46-49.
- 0388 Hammerton, M., & Tickner, A. H. (1969). An investigation into the effects of stress upon skilled performance. Ergonomics, 12(6), 851.

- 0389 Hammerton, M., & Tickner, A. H. (1970). Structured and blank backgrounds in a pursuit tracking task. Ergonomics, 13(6) 719-722.
- 0390 Hammerton, M., & Tickner, A. H. (1970). The effect of temporary obscuration of the target on a pursuit tracking task. Ergonomics, 13(6), 723.
- 0391 Hammerton, M. (1981). Tracking. In: D. Holding (Ed.), Human Skills. New York: Wiley and Sons.
- 0392 Hammond, D. (1972). Effects of visual and thermal stimulation upon reminiscence in rotary pursuit tracking. Irish Journal of Psychology, 1(3), 177-184.
- 0393 Hans, M. W., Fry S., & Glazar A. (1962). Final report: Type II pepiscope system operator error evaluation (Report No. G.A. 2233). New York, NY: Sperry Gyroscope Company, Polaris Management Organization.
- 0394 Harris, P. L., Cassel, T. Z., & Bamborough, P. (1974). Tracking by young infants. British Journal of Psychology, 65(3), 345-349.
- 0395 Harris, P. L., North, R. A., & Owens, J. M. (1978). A system for the assessment of human performance in concurrent verbal and manual control tasks (Report No. 1254, pp. 329-333). Pensacola, FL: U.S. Naval Aerospace Medical Research Laboratory.
- 0396 Harris, S. D., Owens, J. M., & North, R. A. (1979). Human performance in time-shared verbal and tracking tasks (Report No. 1259). Pensacola, FL: U.S. Naval Aerospace Medical Research Laboratory.
- 0397 Hartman, B. O. (1957). The effect of joystick length in pursuit tracking (Report No. 279). San Antonio, TX: U.S. Army Medical Research Laboratory.
- 0398 Hartwell, N. M. (1973). Sideloaders - a case study in the port industry. Applied Ergonomics, 4(3), 163-167.
- 0399 Heimstra, M. W., Fallesen, J. J., Kinsley, S. A., & Warner, N. W. (1980). The effects of deprivation of cigarette smoking on psychomotor performance. Ergonomics, 23(11), 1047-1055.
- 0400 Henschke, U. K., & Mauch, H. A. (1947). A study of the design for a three-dimensional hand control for aircraft (Memorandum Report No. TSEAA-696-110). Rome Air Force Base, NY: Air Materiel Command
- 0401 Hershberger, M. L. (1967). An experimental study of image motion compensation tracking for earth reconnaissance from space. Human Factors, 9(2), 105.
- 0402 Herzog, J. H. (1968). Manual control using the matched manipulator control technique. IEEE Transactions on Man-Machine Systems, MMS-9(3), 56.
- 0403 Hess, R. A. (1973). Nonadjectival rating scales in human response experiments. Human Factors, 14(2), 131-138.
- 0404 Hess, R. A. (1977). A dual-loop model of the human controller in single-axis tracking tasks (Report No. TM-73249; A-7064). Moffett Field, CA: National Aeronautics and Space Administration, Ames Research Center.

- 0405 Hess, R. A. (1981). Pursuit tracking and higher levels of skill development in the human pilot. IEEE Transactions on Systems, Man, and Cybernetics, 11(4), 262-273.
- 0406 Hess, R. A., & Teichgraber, W. M. (1974). Error quantization effects in compensatory tracking tasks. IEEE Transactions on Systems, Man, and Cybernetics, 4(4), 343-349.
- 0407 Heymann, M., Ardema, M. D., & Rajan, N. (1984). A formulation and analysis of combat games (Report No. 1.15:85927; A-9678; TM-85927). Moffett Field, CA: National Aeronautics and Space Administration, Ames Research Center.
- 0408 Heyning, J. M. (1966). The human observer. The Human in the Photo-Optical System. Seminar Proceedings, New York, NY.
- 0409 Heywood, S., & Churcher, J. (1981). Saccades to step-ramp stimuli. Vision Research, 21(4), 479-490.
- 0410 Hick, W. E. (1945). The precision of incremental muscular forces, (Report No. 23). Cambridge, England: Applied Psychology Unit.
- 0411 Hick, W. E., & Bates, J. A. V. (1950). The human operator of control mechanisms (Report No. 17-204). England: Ministry of Supply, Permanent Records of Research and Development.
- 0412 Hickok, J. H. (1973). Grip pressure as a measure of task difficulty in compensatory tracking tasks. Unpublished master's thesis: Naval Postgraduate School, Monterey, CA.
- 0413 Hicks, S. A. (1957). Literature review: Tracking control mechanisms and displays (Light Antiaircraft System Oriented) (Technical Memorandum 9-57). Aberdeen Proving Ground, MD: U.S. Army Human Engineering Laboratory
- 0414 Hilgendorf, L. (1966). Information input and response time. Ergonomics, 9(1), 31.
- 0415 Hill, J. W., McGovern, D. E., & Sword, A. J. (1974). Study to design and develop remote manipulator systems (Report No. NASA-CR-137528). Melio Park, CA: Stanford Research Institute.
- 0416 Hillberg, C., & Jaermark, B. (1983). On pursuit-evasion between two realistic aircraft (Report No. SAAB-TN-AE-75; ISSN-0080-5149; SAAB-SCANIA). Linköping, Sweden.
- 0417 Hindle, A. (1967). Motor vehicle handling properties and driver control. Ergonomics, 10(6), 675.
- 0418 Hobart, D. C., Hartman, H. H., & McNeal, D. R. (1970). System's response time and performance improved for myoelectric control. Proceedings of the 23rd Annual Conference on Engineering in Medicine and Biology, 12, 242.



- 0419 Hoffman, C. S., & Sweeney, J. S. (1966). An experimental investigation of radar target designation tracking. Proceedings of the 7th National Symposium on Human Factors in Electronics, New York, NY.
- 0420 Hoffman, E. R., & Joubert, P. N. (1966). The effect of changes in some vehicle handling variables on driver steering performance. Human Factors, 8(3), 245.
- 0421 Hoffman, E. R., & Joubert, P. N. (1968). Just noticeable differences in some vehicle handling variables. Human Factors, 10(3), 263.
- 0422 Hofman, M.A. & Heimstra, N. W. (1972). Tracking performance with visual, auditory, or electrocutaneous displays. Human Factors, 14(2), 131-138.
- 0423 Holden, E. A., & Corrigan, J. G. (1980). Effects of auditory feedback on velocity extrapolation by mentally retarded and nonretarded groups during rotary pursuit tracking. American Journal of Mental Deficiency, 84(4), 381-386.
- 0424 Holden, E. A., & Corrigan, J. G. (1982). Feedback effects on target search and velocity extrapolation by mentally retarded and nonretarded adolescents. American Journal of Mental Deficiency, 86(4), 414-420.
- 0425 Holding, D. H. (1962). Transfer between difficult and easy tasks. British Journal of Psychology, 53, 397-407.
- 0426 Holding, D. H., & Macrea, A. W. (1966). Rate and force of guidance in perceptual-motor tasks with reversed or random spatial correspondence. Ergonomics, 9(4), 289.
- 0427 Holland, C. L. (1967). Performance effects of long term random vertical vibration. Human Factors, 9(2), 93.
- 0428 Holland, J. G., & Henson, J. B. (1956). Transfer of training between quickened and unquickened tracking systems (Report No. 4703). Washington, DC: U.S. Naval Research Laboratory.
- 0429 Holzman, P. S. (1983). Smooth pursuit eye movements in psychopathology. Schizophrenia Bulletin, 9(1), 33-36.
- 0430 Holzman, P. S. (1974). Eye-tracking dysfunctions in schizophrenic patients and their relatives. Archives of General Psychiatry, 31(2), 143-151.
- 0431 Holzman, P. S. (1975). Smooth-pursuit eye movements, and diazepam, CPZ, and secobarbital. Psychopharmacologia, 44(2), 111-115.
- 0432 Holzman, P. S. (1977). Abnormal-pursuit eye movements in schizophrenia: Evidence for a genetic indicator. Archives of General Psychiatry, 34(7), 802-805.
- 0433 Holzman, P. S. (1978). Smooth pursuit eye movements in twins discordant for schizophrenia. Journal of Psychiatric Research, 12(1-4), 111-120.
- 0434 Holzman, P. S., Kringlen, E., Levy, D.L., & Haberman, S. J. (1980). Deviant eye tracking in twins discordant for psychosis: A replication. Archives of General Psychiatry, 37(6), 627-631.

- 0435 Holzman, P. S., Kringlen, E., Matthysse, S., & Flanagan, S. D. (1988). A single dominant gene can account for eye tracking dysfunctions and schizophrenia in offspring of discordant twins. Archives of General Psychiatry, 45(7), 641-647.
- 0436 Holzman, P. S., Proctor, L. R., & Hughes, D. W. (1973). Eye-tracking patterns in schizophrenia. Science, 181(4095), 179-181.
- 0437 Holtzman, J. D., Sedgwick, H. A., & Festinger, L. (1978). Interaction of perceptually monitored and unmonitored efferent commands for smooth pursuit eye movements. Vision Research, 18(11), 1545-1555.
- 0438 Honda, H. (1984). Functional between-hand differences and outflow eye position information. Quarterly journal of Experimental Psychology: Human Experimental Psychology, 36(1-A), 75-88.
- 0439 Honda, H. (1985). Spatial localization in saccade and pursuit-eye-movement conditions: A comparison of perceptual and motor measures. Perception and Psychophysics, 38(1), 41-46.
- 0440 Honey, F. J. (1971). Artist-oriented computer animation. Journal of the Society of Motion Picture and Television Engineers, 80(3), 154.
- 0441 Hoover, T. O., & Rosenquist, H. S. (1973). Successive versus concurrent introduction of an experimental variable: Induced muscle tension. Catalog of Selected Documents in Psychology, 3, 40-41.
- 0442 Hopkin, V. D. (1971). Conflicting criteria in evaluating ATC systems. Ergonomics, 14(5), 557-564.
- 0443 Hopkin, V. D. (1972). Stress in ATC. Applied Ergonomics, 3(3), 184-186.
- 0444 Hoppe, R. B. (1972). Intercontrol movement dependence in a two-dimensional compensatory tracking task. Dissertation Abstracts International, 33(5-B), 2373-2374.
- 0445 Hoppe, R. B. (1974). Acquisition and transfer of intercontrol movement dependence in two-dimensional compensatory tracking. Journal of Experimental Psychology, 102(2), 215-225.
- 0446 Hornick, R. J., & Lefritz, N. L. (1973). Air-crew response to the environment of low-Altitude high-speed flight (Technical Report). Los Angeles, CA: North American Aviation, Los Angeles Division.
- 0447 Hornick, R. J., & Lefritz, N. L. (1966). A study and review of human response to prolonged random vibration. Human Factors, 8(6), 481.
- 0448 Hosman, R. J., & Van der Vaart, J. C. (1981). Effects of vestibular and visual motion perception on task performance. Acta Psychologica, 48(1-3), 271-287.
- 0449 Howell, W. C., & Briggs, G. E. (1959). An initial evaluation of a vibrotactile display in complex control tasks (Technical Report No. (813)-5, AF 33(616)-5524). Columbus, OH: The Ohio State University Research Foundation.

- 0450 Hrapsky, J. S. (1981). Effects of training in visual observation upon subsequent visual-motor performance. Dissertation Abstracts International, 42(3-B), 1212.
- 0451 Hsu, S., & Payne, R. B. (1979). Effector localization and transfer of reactive inhibition. Journal of Motor Behavior, 11(2), 153-158.
- 0452 Huang, K. L., & Payne, R. B. (1975). Individual and sex differences in reminiscence. Memory and Cognition, 3(3), 252-256
- 0453 Huchingson, R. D. (1973). Effects of time constraint on closed-loop tracking performance and change in heart rate. Perceptual and Motor Skills, 36(3, Pt. 2), 1195-1198.
- 0454 Huddleston, H. F. & Rolfe, J. M. (1971). Behavioral factors influencing the use of flight simulators for training. Applied Ergonomics, 2(3), 141-148.
- 0455 Huddleston, H. F., Wilson, R. V. (1971). An evaluation of the usefulness of four secondary tasks in assessing the effect of a lag in simulated aircraft dynamics. Ergonomics, 14(3), 371-380.
- 0456 Huddleston, J. H. (1974). Personality and apparent operator capacity. Perceptual and Motor Skills, 38(3, Pt 2), 1189-1190.
- 0457 Hull, C. L. (1943). Principles of behavior. New York: Appleton-Century.
- 0458 Hull, C. L. (1951). Essentials of behavior. New Haven: Yale University Press.
- 0459 Hull, C. L. (1952). A behavior system. New Haven: Yale University Press.
- 0460 Hummel, T. L., Williges, B. H., & Roscoe, S. N. (1972). A computer-generated display to isolate essential visual cues in landing. Proceedings of the 16th Annual Meeting of the Human Factors Society, 98-101.
- 0461 Humphrey, C. E., & Thompson, J. E. (1952). Auditory displays: II. Comparison of auditory and visual tracking in one dimension: A. Discontinuous signals, simple course (Report No. APL/JHU-TG-146, p. 137). Silver Spring, MD: Applied Physics Laboratory, The Johns Hopkins University.
- 0462 Humphrey, C. E., & Thompson, J. E. (1952). Auditory displays: II. Comparison of auditory tracking with visual tracking on one dimension. B. Discontinuous signals, complex course (Technical Report). Silver Spring, MD: The Johns Hopkins University.
- 0463 Humphrey, C. E., & Thompson, J. E. (1953). Auditory displays: II. Comparison of auditory tracking with visual tracking in one dimension: C. Continuous signals, simple, intermediate and complex courses (Technical Report). Silver Spring, MD: Applied Physics Laboratory, The Johns Hopkins University.
- 0464 Humphrey, C. E. (1953). Time-sharing and the tracking task (Report No. APL/JHU-TG-201, p. 137). Silver Spring, MD: Applied Physics Laboratory, The Johns Hopkins University.
- 0465 Hundley, P. L. (1977). Peripheral factors in the smooth pursuit control system. Dissertation Abstracts International, 38(6-B), 2907.

- 0466 Hunsicker, P. A. (1955). Arm strength at selected degrees of elbow flexion (Technical Report 54-548). Wright-Patterson Air Force Base, OH: Wright Air Development Center.
- 0467 Hunsicker, P. A. (1957). A study of muscle forces and fatigue (Technical Report 57-586). Wright-Patterson Air Force Base, OH: Wright Air Development Center.
- 0468 Hunt, D. P. (1959). Tracking performance as a function of feedback specificity (Technical Report). Wright-Patterson Air Force Base, OH: Wright Air Development Center.
- 0469 Huntley, M. S., Jr. (1972). Task complexity and serial performance under steadily increasing input rates. Human Factors, 14(1), 65-75.
- 0470 Hutton, J. T. (1981). Smooth pursuit and saccadic eye movements in dementia. Dissertation Abstracts International, 41(7-B), 2555-2556.
- 0471 Hutton, J. T., Nagel, J. A., & Loewenson, R. B. (1984). Eye tracking dysfunction in alzheimer-type dementia. Neurology, 34(1), 99-102.
- 0472 Iacono, W. G. (1978). Individual differences in smooth pursuit and saccadic eye movements and manual tracking performance in monozygotic twins: Some implications for schizophrenia. Dissertation Abstracts International, 39(2-B), 982-983.
- 0473 Iacono, W. G. (1982). Eye tracking in normal twins. Behavior Genetics, 12(5), 517-526.
- 0474 Iacono, W. G. (1985). Psychophysiologic markers of psychopathology: A review. Canadian Psychology, 26(2), 96-112.
- 0475 Iacono, W. G. (1982). Eye tracking in patients with unipolar and bipolar affective disorders in remission. Journal of Abnormal Psychology, 91(1), 35-44.
- 0476 Iacono, W. G., & Koenig, W. G. (1983). Features that distinguish the smooth-pursuit eye-tracking performance of schizophrenic, affective-disorder, and normal individuals. Journal of Abnormal Psychology, 92(1), 29-41.
- 0477 Iacono, W. G., & Lykken, D. T. (1979). Electro-oculographic recording and scoring of smooth pursuit and saccadic eye tracking: A parametric study using monozygotic twins. Psychophysiology, 16(2), 94-107.
- 0478 Iacono, W. G., & Lykken, D. T. (1979). Eye tracking and psychopathology: New procedures applied to a sample of normal monozygotic twins. Archives of General Psychiatry, 36(12), 1361-1369.
- 0479 Iacono, W. G., & Lykken, D. T. (1979). Comments on "Smooth-pursuit eye movements: A comparison of two measurement techniques." Journal of Abnormal Psychology, 88(6), 678-680.
- 0480 Iacono, W. G., & Lykken, D. T., (1981). Two-year retest stability of eye tracking performance and a comparison of electro-oculographic and infrared recording

techniques: Evidence of EEG in the electro-oculogram. Psychophysiology, 18(1), 49-55.

- 0481 Iacono, W. G., Tuason, V. B., & Johnson, R. A. (1981). Dissociation of smooth-pursuit and saccadic eye tracking in remitted schizophrenics: An ocular reaction time task that schizophrenics perform well. Archives of General Psychiatry, 38(9), 991-996.
- 0482 Imhoff, D. L., & Levine, J. M. (1981). Perceptual-motor cognitive performance task battery for pilot selection (Report No. 80-27). Washington, DC: Advanced Research Resources Organization.
- 0483 Ince, F., & Williges, R. C. (1972). Detecting slow changes in system dynamics (Report No. ARL-72-4/AFOSR-72-2; AFOSR-TR-72-1663). Illinois University, Savoy Aviation Research Laboratory.
- 0484 Ince, F., & Williges, R. C. (1974). Detecting slow changes in system dynamics. Human Factors, 16(3), 278-285.
- 0485 Ince, F., Williges, R. D., & Roscoe, S. N. (1973). Aircraft simulator motion and the order of merit of flight attitude and steering guidance displays. Proceedings of the 17th Annual Meeting of the Human Factors Society, 256-264.
- 0486 Ince, F., Williges, R. C., & Roscoe, S. N. (1973, Oct). Aircraft simulator motion and the order of merit of flight attitude and steering guidance displays. Proceedings of the 17th Annual Meeting of the Human Factors Society, Los Angeles, CA.
- 0487 Ince, F., Williges, R. C., & Roscoe, S. N. (1975). Aircraft simulator motion and the order of merit of flight attitude and steering guidance displays. Human Factors, 17(4), 388-400.
- 0488 Irion, A. L. (1966). A brief history of research on the acquisition of skill. In E. A. Bilodeau (Ed.), Acquisition of Skill. New York: Academic Press.
- 0489 Jackson, A. S. (1961). Digital simulation of man-machine systems. The 2nd Annual Human Factors Symposium, Washington, DC.
- 0490 Jackson, A. S. (1963). Automation and air traffic control. IEEE 6th Regional Conference, San Diego, CA.
- 0491 Jackson, A. S. (1963). Dynamic simulation techniques. Proceedings of the 4th National Symposium on Human Factors in Electronics. Washington, DC.
- 0492 Jackson, A. S. (1963). Man-computer relations. IEEE International Convention, New York, NY.
- 0493 Jackson, A. S. (1969). A computer simulation study of five automated air traffic control concepts. International Symposium on Man-Machine Systems, (IEEE Conference Record No. 69C58-MMS.)
- 0494 Jaeger, R. J. (1980). Predictive capabilities of nonhuman operators in a manual control system. Perceptual and Motor Skills, 51, 759-764.

- 0495 Jaeger, R. J., Agarwal, G. C., & Gottlieb, G. L. (1980). Predictor operator in pursuit and compensatory tracking. Human Factors, 22(4), 497-506.
- 0496 Jagacinski, R. J., Miller, D. P., & Gilson, R. D. (1979). A comparison of kinesthetic-tactual and visual displays via a critical tracking task. Human Factors, 21(1), 79-86.
- 0497 Jagacinski, R. J., Flach, J. M., & Gilson, R. D. (1983). A comparison of visual and kinesthetic-tactual displays for compensatory tracking. IEEE Transactions on Systems, Man, and Cybernetics, SMC-13(6), 1103-1112.
- 0498 Jagacinski, R. J., & Hah, S. (1988). Progression-regression effects in tracking repeated patterns. Journal of Experimental Psychology: Human Perception and Performance, 14(1), 77-88.
- 0499 James, H. M., Nichols, N. R., & Phillips, R. S. (1947). Theory of servomechanisms. New York: McGraw Hill.
- 0500 Jampolsky, A., Haegerstrom-Portnoy, G., Jones, R., & Adams, A. J. (1986). Effect of atropine and 2-PAM chloride on vision and performance (Final/Annual Report 1 Sep 83-31 May 86). San Francisco, CA: Smith-Kettlewell Institute of Visual Sciences.
- 0501 Janousek, J. A. (1968). Dynamic mockup aids submersible design. Proceedings of the 12th Annual Meeting of the Human Factors Society, Chicago, IL.
- 0502 Janow, C., & Malone, T. B. (1973). Human factor roles in the design of teleoperator systems. Proceedings of the 17th Annual Meeting of the Human Factors Society, 305-314.
- 0503 Jaquet, B. M., & Riley, D. R. (1965). An evaluation of gemini hand controllers and instruments for docking (Report No. TM X-1066). Washington, DC: National Aeronautics and Space Administration.
- 0504 Jeantheau, G. G. (1969). The use of multi-man system trainers. Ergonomics, 12(4), 1533.
- 0505 Jenkins, W. O. (1946). The accuracy of pilots and non-pilots in applying pressures on a control stick (Memorandum Report No. TSEAA-694-3). Wright-Patterson Air Force Base, OH: Air Materiel Command.
- 0506 Jenkins, W. O. (1946). The accuracy of pilots in applying pressures on wheel-type controls (Memorandum Report No. TSEAA-694-3a). Rome Air Force Base, NY: Air Materiel Command.
- 0507 Jenkins, W. O. (1946). The accuracy of pilots in applying pressures on rudder pedals (Memorandum Report No. TSEAA-694-3b). Rome Air Force Base, NY: Air Materiel Command.
- 0508 Jenkins, W. O., & Karr, A. C. (1954). The use of a joy-stick in making settings on a simulated scope face. Journal of Applied Psychology, 38, 457-461.
- 0509 Jennings, A. E., Chiles, W. D., & West, G. (1972). Methodology in the measurement of complex human performance: Two-dimensional compensatory

tracking II (Report No. FAA-AM-72-21). Oklahoma City, OK: Federal Aviation Administration, Civil Aeromedical Institute, Aviation Psychology Laboratory.

- 0510 Jennings, A. E., Chiles, W. D., & West, G. (1972). Methodology in the measurement of complex human performance: Two-dimensional compensatory tracking (Report No. FAA-AM-71-21). Oklahoma City, OK: Federal Aviation Administration, Civil Aeromedical Institute.
- 0511 Jex, H. R., & Magdaleno, R. E. (1969). Corroborative data on normalization of human operator remnant. IEEE Transaction on Man-Machine Systems, MMS-10(4), 137.
- 0512 Jex, H. R., McDonnell, J. D., & Phatak, A. V. (1966). A critical tracking task for manual control research. IEEE Transaction on Human Factors in Electronics, 7(4), 138.
- 0513 Jex, H. R., McDonnell, J. D., & Phatak, A. V. (1966). A critical tracking task for man/machine research related to the operator's effective delay time. Proceedings of the 7th National Symposium on Human Factors in Electronics, New York, NY.
- 0514 Jex, H. R., McDonnell, J. E., & Phatak, A. V. (1966). A critical tracking task for man-machine related to the operator's effective delay time. I: theory and experiments with a first-order divergent controlled element (Contractor Report 616). Washington, DC: National Aeronautics and Space Administration.
- 0515 Johannsen, G. (1972). Development and optimization of a nonlinear multiparameter human operator model. IEEE Transaction on Systems, Man, and Cybernetics, SMC-2(4), 494-504.
- 0516 Johnson, A. P. (1946). Experimental comparison of sighting and triggering performance with hand grips as compared to handwheel controls on the B-29 pedestal sight (Memorandum Report No. TSEAA-694-2). Rome Air Force Base, NY: Air Materiel Command.
- 0517 Johnson, B. E., & Williams, A. C. (1971). Obedience to rotation-indicating visual displays as a function of confidence in the displays. Aviation Research Monographs, 1(3), 11-25.
- 0518 Johnson, R. M. (1965). Artificial feel for servo boosted manual controls. Control Engineering Journal, reprint.
- 0519 Johnson, S. L., & Roscoe, S. N. (1972). What moves, the airplane or the world? Human Factors, 14(2), 107-129.
- 0520 Johnson, S. L., Williams, R. D., & Roscoe, S. N. (1971). A new approach to motion relations for flight director displays (Report No. ARL-71-20/ONR-71-3/AFOSR-71-6). University of Illinois, Aviation Research Laboratory, Institute of Aviation Technology.
- 0521 Johnston, W. L., & Ayoub, M. M. (1972). Body orientation under vertical sinusoidal vibration. Human Factors, 14(4), 349-356.

- 0522 Joint Publications Research Service, Washington, DC (1972). Cybernetics and computer technology. Number 7, 1970. (Transactions of Kibernetika I Vychislitel'naya Tekhnika [USSR]), 7, 6-13, 16-32, 37-53, 56-58.
- 0523 Jones, A. L., & Wingert, J. W. (1969). On estimating the capability of an avionic man-machine system. International Symposium on Man-Machine Systems, (IEEE Conference Record No. 69C58-MMS.)
- 0524 Jones, A. M., & Pivik, R. T. (1985). Vestibular activation, smooth pursuit tracking, and psychosis. Psychiatry Research, 14(4), 291-308.
- 0525 Jones, E. C., Jr., & Schuster, D. H. (1970). Design and development of an adaptive, auditory, and distractive stressor. IEEE Transaction on Man-Machine Systems, 11(3), 61.
- 0526 Jones, M. B. (1980). Stabilization and task definition in a performance test battery (Technical Report). Hershey, PA: Pennsylvania State University, Sifton S. Hershey Medical Center, U.S. Naval Biodynamics Laboratory.
- 0527 Joos, H. D. (1981). Extension of proportional navigation by the use of optimal filtering and control methods (Report No. ESA-TT-683; DFVLR-FB-80-10). Paris, France: European Space Agency.
- 0528 Jordan, S., & Manfredi, U. (1972). Eye movement research program. Annual Report Number 2. Visual training (Report No. NAVTRADEVCECEN-IH-202). Orlando, FL: U.S. Naval Training Device Center.
- 0529 Justin, J. E. (1974). Air-to-air gunnery qualitative variables, (Report No. AFAL-TR-74-26). Wright-Patterson Air Force Base, OH: U.S. Air Force Avionics Laboratory.
- 0530 Kallis, S. A., Jr. (1971). Computer animation techniques. Journal of the Society of Motion Picture and Television Engineers, 80(3), 145.
- 0531 Kalsbeek, J. W. H. (1971). Standards of acceptable load in ATC tasks. Ergonomics, 14(5), 641-650.
- 0532 Kano, C., & Hayaski, K. (1976). The apparent path of a stationary and a circularly moving spot during the smooth pursuit of another circularly moving spot. Acta Psychologica, 48(1-3), 151-160.
- 0533 Kao, H. S. (1976). Effects of intermittency of feedback on a compensatory tracking task. Perceptual and Motor Skills, 43(3), 1339-1345.
- 0534 Kao, H. S. (1977). Effects of delay of feedback and intermittency of feedback in compensatory tracking. Perceptual and Motor Skills, 44(3, Pt. 2), 1079-1085.
- 0535 Kao, H. S. (1971). A feedback analysis of eye-head angular displacements in human vehicular guidance. International Symposium on Man-Machine Systems. (IEEE Conference Record No. 69C58-MMS.)
- 0536 Kao, H. S. (1976). Effects of intermittency of feedback on a compensatory tracking task. Perceptual and Motor Skills, 43, 1339-1345.



- 0537 Kao, H. S. (1977). Effects of delay of feedback and intermittency of feedback in compensatory tracking. Perceptual and Motor Skills, 44, 1079-1085.
- 0538 Kao, H. S., & Nagamachi, M. (1969). Visual-manual feed-back mechanism in human vehicular performance. Ergonomics, 12(5), 741.
- 0539 Kao, H. S., & Smith K. U. (1977). Delayed visual feedback in interoperator social tracking performance. Psychological: International Journal of Psychology in the Orient, 20, 20-27.
- 0540 Kao, H. S., & Smith, K. U. (1978). Unimanual and bimanual control in a compensatory tracking task. Ergonomics, 21(9), 661-669.
- 0541 Karlin, L., & Mortimer, R. G. (1963). Effect of verbal, visual, and auditory augmenting cues on learning a complex motor skill. Journal of Experimental Psychology, 65(1), 75-79.
- 0542 Kasai, T., & Zee, D. S. (1978). Eye-head coordination in labyrinthine-defective human beings. Brain Research, 144(1), 123-141.
- 0543 Kaufman, E. L. (1947). Accuracy, variability and speed of adjusting an indicator to a required bearing (Report No. 166-1-MHC 4). Port Washington, NY: Office of Naval Research, Special Devices Center, Systems Research, The Johns Hopkins University
- 0544 Kawano, K., Sasaki, M., & Yamashita, M. (1984). Response properties of neurons in posterior parietal cortex of monkey during visual-vestibular stimulation: I: Visual tracking neurons. Journal of Neurophysiology, 51(2), 340-351.
- 0545 Kawano, K., & Sasaki, M. (1984). Response properties of neurons in posterior parietal cortex of monkey during visual-vestibular stimulation: II. Optokinetic neurons. Journal of Neurophysiology, 51(2), 352-360.
- 0546 Keast, D. N. (1967). Survey of graphic input devices for computer-aided design. Machine Design, 114.
- 0547 Keller, E. L., & Khan, N. S. (1986). Smooth-pursuit initiation in the presence of a textured background in monkey. Vision Research, 26(6), 943-955.
- 0548 Kelley, C. R. (1966). Design applications of adaptive self-adjusting simulators. The 2nd Annual NASA Conference on Manual Control, NASA SP-128, 379.
- 0549 Kelley, C. R. (1967). Further research with adaptive tasks (Final report contract nonr-4986(00)). Inglewood, CA: Dunlap and Associates.
- 0550 Kelley, C. R. (1968). Manual and automatic control. New York: John Wiley and Sons.
- 0551 Kelley, C. R. (1968). Manual control. Inglewood, CA: Dunlap and Associates
- 0552 Kelley, C. R. (1968). Predictor displays. Control Engineering, 86.
- 0553 Kelley, C. R. (1969). The measurement of tracking proficiency. Human Factors, 11(1), 43-64.

- 0554 Kelley, C. R. (1962). Self-adjusting vehicle simulators. Stamford, CT: Dunlap and Associates.
- 0555 Kelley, C. R. (1969). What is adaptive training? Human Factors, 11(6), 547.
- 0556 Kelley, C. R., & Strudwick, P. H. (1964). Manual control bibliography. Inglewood, CA: Dunlap and Associates.
- 0557 Kelley, C. R., & Wargo, M. J. (1967). Cross adaptive operator loading tasks. Human Factors, 9(5), 395.
- 0558 Kelly, M. J. (1972). Target acquisition in a restricted visual field. Proceedings of the 16th Annual Meeting of the Human Factors Society, 144-147.
- 0559 Kelso, J. A. S. (1982). The process approach to understanding motor behavior. In H. A. S. Kelso (Ed.), Human motor behavior (pp. 3-19). Hillsdale, NJ: Lawrence Erlbaum.
- 0560 Kelso, J. A. S., & Southard, D. L., & Goodman, D. (1979). On the coordination of two-handed movements. Journal of Experimental Psychology, 5(2), 29-238.
- 0561 Kelso, J. A. S., & Southard, D. L., & Goodman, D. (1979). On the nature of human interlimb coordination. Science, 203, 1029-1031.
- 0562 Kennedy, J. E., & Landesman, J. (1963). Series effects in motor preference studies. Journal of Applied Psychology, 81, 281-288.
- 0563 Kennedy, R. S., Bittner, A. C., & Hones, M. B. (1980). The utility of commercially available television computer games for assessing performance and other applications. Proceedings of the 51st Annual Meeting of the Aerospace Medical Association, Anaheim, CA.
- 0564 Kennedy, R. S., Bittner, A. C., & Jones, M. B. (1981). Video-game and conventional tracking. Perceptual and Motor Skills, 53(1), 310.
- 0565 Kenyon, R. V., Zeevi, Y. Y., Wetzel, P. A., & Young, L. R. (1985). Eye movement in response to single and multiple targets. (Technical Report 84-29, p. 110). Cambridge, MA: Massachusetts Institute of Technology, Man-Vehicle Laboratory.
- 0566 Kerr, R., & Blais, C. (1985). Motor skill acquisition by individuals with down syndrome. American Journal of Mental Deficiency, 90(3), 313-318.
- 0567 Kerr, R., & Blais, C. (1987). Down syndrome and extended practice of a complex motor task. American Journal of Mental Deficiency, 91(6), 591-597.
- 0568 Keselman, M. (1973). An improved light gun tracking algorithm based on a recursive digital filter. Proceedings of the Society for Information Display, 14(2) Second Quarter, 52-61.
- 0569 Kessel, C., & Wickens, C. D. (1987). Development and utilization of internal models in dynamic systems. A comparison of monitors and operators as failure detectors (Report No. EPL-78-2/AFOSR-78-5; AFOSR-TR-79-0683). Illinois University at Urbana-Champaign, Engineering-Psychology Laboratory.

- 0570 Khachaturyants, L. S., & Yepishkin, A. K. (1986). Operator work capacity in tracking system when submitted to antiorthostatic hypokinesia. (USSR Report) Space Biology and Aerospace Medicine, 20(3)
- 0571 Khalil, T. M., & Otero, J. E. (1973). On the quantification of electromyography, Proceedings of the 17th Annual Meeting of the Human Factors Society, 505-508.
- 0572 Kimble, G. A. (1949). Performance and reminiscence in motor learning as a function of the degree of distribution of practice. Journal of Experimental Psychology, 39, 500-510.
- 0573 King, L. E., & Plummer, R. W. (1972). Lateral vehicle placement and steering wheel reversals on a simulated bridge of variable width. Proceedings of the 16th Annual Meeting of the Human Factors Society, 58-63.
- 0574 Kinkade, R. G. (1963). A differential influence of augmented feedback on learning and on performance (Technical Report No. AMRL-TDR-62-12). Wright-Patterson Air Force Base, OH: Aerospace Medical Division.
- 0575 Kinkade, R. G. (1963). Augmented feedback and tracking skill (Technical Report NAVTRADEVCEEN 508-3). Port Washington, NY: U.S. Naval Training Device Center.
- 0576 Kinney, G. C. (1973). Facts and fallacies about decision input. NEREM 73 Record Part 4: Displays, IEEE Catalog No. 73 CHO 842-5 NEREM, 121-129.
- 0577 Kinsella, K. J., & Matthews, A. J. (1972). Using interactive graphics for fighter pilot training. Information Display, 9(2), 15-20, 31.
- 0578 Kipperman, M. C. (1979). Use of electromyogram information to improve human operator performance (Report No. AFIT/GSM/SM/79D-18). Wright-Patterson Air Force Base, OH: Institute of Technology, School of Engineering.
- 0579 Kirchner, J. H., & Luring, W. (1971). The human operator in ATC systems. Ergonomics, 14(5), 549-556.
- 0580 Kirsch, H. (1954). An aided tracking system simulator. Unpublished master's thesis, University of California-Los Angeles.
- 0581 Klapp, S. T., Kelly, P. A., & Netick, A. (1987). Hesitations in continuous tracking induced by a concurrent discrete task. Human Factors, 29(3), 327-337.
- 0582 Klass, P. J. (1970). ATC automation facing key test. Aviation Week and Space Technology, 93(3), 50-53.
- 0583 Klass P. J. (1972). Fly-by-wire advantages explored. Aviation Week and Space Technology, 97(2), 52-54.
- 0584 Knoop, D. E. (1964). Preliminary study of various types of control stick for TOW helicopter (Reference 2147.3/62). Culver City, CA: Hughes Aircraft Company.

- 0585 Knoop, D. E., & Fu, K. S. (1964). An adaptive model of the human operator in a control system. Proceedings of the 5th National Symposium on Human Factors in Electronics. San Diego, CA.
- 0586 Knowler, E., Murphy, B. J., & Steinman, R. M. (1978). Velocity matching during smooth pursuit of different targets on different backgrounds. Vision Research, 18(5), 603-605.
- 0587 Knowles, W. B., & Sheridan T. B. (1966). The feel of rotary controls: Friction and inertia. The Journal of the Human Factors Society, 8(3), 209.
- 0588 Kochnar, D. S., & Fraser, T. M. (1972). Observations on a simulated driving task and its effects on response time to peripheral visual signals for left and right handed subjects. Proceedings of the 16th Annual Meeting of the Human Factors Society, 40-43.
- 0589 Kogi, K., & Saito, Y. (1973). Rhythmic fluctuation of orientation to a continuous manual control task. Journal of Human Ecology, 2(2), 169-184.
- 0590 Kohl, M., Roenker, L., & Indermill, C. (1987). Scaling task complexity along a single dimension. Perceptual and Motor Skills, 65(2), 463-467.
- 0591 Kolb, J. (1970). Joystick steers air controller into positive contact with airliner. Product Engineering, reprint.
- 0592 Kondo, M., & Nakamizo, S. (1982). Effects of eye movements on the apparent depth of moving targets. Japanese Psychological Review, 24(1), 21-28.
- 0593 Konz, S., Wadhwa, N., Sathaye, S., & Chawla, S. (1971). Human factors considerations for a combined brake-accelerator pedal. Ergonomics, 14(2), 279-292.
- 0594 Kornfeld, C. M. (1975). EEG spectra during a prolonged compensatory tracking task. Dissertation Abstracts International, 35(11-B), 5669.
- 0595 Kornfeld, C. M., & Beatty, J. (1977). EEG spectra during a long-term compensatory tracking task. Bulletin of the Psychonomic Society, 10(1), 46-48.
- 0596 Kovit, B. (1965). Low Altitude Penetration. Space and Aeronautics, 76.
- 0597 Kowler, E., & Steinman, R. M. (1979). The effect of expectations on slow oculomotor control: I. Periodic target steps. Vision Research, 19(6), 619-632.
- 0598 Kowler, E., & Steinman, R. M. (1979). The effect of expectations on slow oculomotor control: II. Single target displacements. Vision Research, 19(6), 633-646.
- 0599 Kowler, E., & Martins, A. J. (1982). Eye movements of preschool children. Science, 215(4535), 997-999.
- 0600 Kowler, E., & McKee, S. P. (1987). Sensitivity of smooth eye movement to small differences in target velocity. Vision Research, 27(6), 993-1015.

- 0601 Kraft, J. A. (1961). A 1961 compilation and brief history of human factors research in business and industry. Reprinted from Human Factors Journal, 3(4).
- 0602 Kraft, J. A. (1969). Human factors and biotechnology, a status survey for 1968-1969 (Report No. LMSC-687154). Austin, TX: Lockheed Missiles and Space Company.
- 0603 Kramer, A. F., Wickens, C. D., & Donchin, E. (1985). Processing of stimulus properties: Evidence for dual-task integrality. Journal of Experimental Psychology: Human Perception and Performance, 11(4), 393-408.
- 0604 Kraus, E. F., & Roscoe, S. N. (1972). Reorganization of airplane manual flight control dynamics. Proceedings of the 16th Annual Meeting of the Human Factors Society, 117-126.
- 0605 Krause, H. E., & Kroemer, K. H. E. (1973). COMBIMAN-A computer model of the operator at his workstation. Proceedings of the 17th Annual Meeting of the Human Factors Society, 418-419.
- 0606 Kreifeldt, J. G. (1965). A sampled-data pursuit tracking model, IEEE Transactions on Human Factors in Electronics, HFE-6(1), 65.
- 0607 Kreifeldt, J. G. (1972). A dynamic model of behavior in a discrete open-loop self-paced motor skill. IEEE Transactions on Systems, Man, and Cybernetics, SMC-2, 262-273.
- 0608 Kremenitzer, J. P., Vaughan, H. G., Kurtzberg, D., & Dowling, K. (1979). Smooth-pursuit eye movements in the newborn infant. Child Development, 50(2), 442-448.
- 0609 Krendel, E. S. (1951). Design of tracking devices with regard to human requirements (Special Report No. S-2169-3; Contract AF 33(038)-10420). Philadelphia, PA: The Franklin Institute, Laboratories for Research and Development.
- 0610 Krendel, E. S. (1952). The spectral density study of tracking performance, Part I: The effect of instructions (Technical Report 52-11). Wright-Patterson Air Force Base, OH: Wright Air Development Center.
- 0611 Krendel, E. S. (1952). The spectral density study of tracking performance, Part II: The effects of input amplitude and practice (Technical Report 52-11). Wright-Patterson Air Force Base, OH: Wright Air Development Center.
- 0612 Kroemer, K. H. E. (1969). Foot operation of controls: Speed and accuracy of motions between targets. International Symposium on Man-Machine Systems. (IEEE Conference Record No. 69C58-MMS.)
- 0613 Kroemer, K. H. E. (1971). Foot operation of controls. Ergonomics, 14(3), 333-361.
- 0614 Krol, J. P. (1971). Variations in ATC - work load as a function of variations in cockpit workload. Ergonomics, 14(5), 585-590.

- 0615 Kubitz, W. J., & Poppelbaum, W. J. (1971). Stereomatrix an interactive three-dimensional display system. Society for Information Display International Symposium Digest of Technical Papers, 30.
- 0616 Kubokawa, C. C. (1984). Instant modular 3D configuring control and display equipment. (Technical Report). Moffett Field, CA: National Aeronautics and Space Administration, Ames Research Center.
- 0617 Kubokawa, C. C. (1968). Instant modular 3D mockup for configuring control and display equipment. IEEE Transaction on Man-Machine Systems, 9(3), 72.
- 0618 Kugath, D. A. (1973). Designing industrial manipulators for the consumer. Proceedings of the 17th Annual Meeting of the Human Factors Society, 315-321.
- 0619 Kuttan, A., & Robinson, G. H. (1971). Models of temporal motor responses-stimulus, movement, and manipulation information. IEEE Transaction on Man-Machine Systems, MMS-11(2), 126.
- 0620 Kvalseth, T. O. (1978). Effect of preview on digital pursuit control performance. Human Factors, 20(3), 371-377.
- 0621 Kvalseth, T. O. (1978). Human performance comparisons between digital pursuit and compensatory control. Ergonomics, 21(6), 419-425.
- 0622 Laabs, G. J., & Stager, P. (1976). Monitoring the information-processing demands of attention switching. Canadian Journal of Psychology, 30(2), 47-54.
- 0623 Laidlaw, W. R., Harris, T. M., & Ruhmel, D. B. (1972). Handling qualities and realistic training. Proceedings of the 16th Annual Meeting of the Human Factors Society, 459-464.
- 0624 Lancaster, R. A., Jr. (1975). An analysis of the closed-loop performance and tracking stability of a direct side force controller (Report No. GAE/MC/75D-9). Wright-Patterson Air Force Base, OH: U.S. Air Force Institute of Technology, School of Engineering.
- 0625 Lane, N. E., Strieb, M. I., Glenn, F. A., & Wherry, R. J. (1981). The human operator simulator: An overview. In J. Morall & K. F. Kraiss (Eds.), Manned systems design: Methods, equipment, and applications (pp. 121-152). New York: Plenum Press.
- 0626 Lang, R. J., & Frith, C. D. (1981). Learning and reminiscence in the pursuit rotor performance of normal and depressed subjects. Personality and Individual Differences, 2(3), 207-213.
- 0627 Lang, R. P., & Vacroux, A. G. (1969). Operator centered adaptive compensation of continuous manual control systems. IEEE Transaction on Man-Machine Systems, MMS-10(2), 53.
- 0628 Langmo, R. D. (1981). Some effects of shape, size and mass on grasp, transport and release movements. Unpublished manuscript, Oregon State University.
- 0629 Lanman, J., Bizzi, E., & Allum, J. (1978). The coordination of eye and head movement during smooth pursuit. Brain Research, 153(1), 39-53.

- 0630 Laszlo, J. I., Bairstow, P. J., Ward, G. R., & Bancroft, H. (1980). Distracting information, motor performance and sex differences. Nature, 283(5745), 377-378.
- 0631 Latham, C., Holzman, P. S., Manschreck, T. C., & Tole, J. (1981). Optokinetic nystagmus and pursuit eye movements in schizophrenia. Archives of General Psychiatry, 38(9), 997-1003.
- 0632 Lawrence, P. D., & Lin, W. C. (1972). Statistical decision making in the real-time control of an arm aid for the disabled. IEEE Transaction on Systems, Man, and Cybernetics, SMC-2(1), 35-42.
- 0633 Lazar, R. G., & Williams, J. R. (1959). Investigation of natural movements in azimuth and elevation lever control adjustments for horizontal and vertical positions (Technical Memorandum 3-59). Aberdeen Proving Ground, MD: U.S. Army Human Engineering Laboratory.
- 0634 Le Cocq, A. D. (1973). The FLIR display. Proceedings of the 17th Annual Meeting of the Human Factors Society, 74-82.
- 0635 Le Cocq, A. D. (1972). Perceptual considerations for a wide field of view, helicopter night landing system (HENILAS). Proceedings of the 16th Annual Meeting of the Human Factors Society, 102-109.
- 0636 Ledbetter, J. D. (1983). Optical tracking investigations into image information and adaptive guidance (Report No. FJSRL-TR-83-0004). United States Air Force Academy, CO: Frank J. Seiler Research Laboratory.
- 0637 Leducq, P. (1984). Theoretical and experimental study of poseidon altimeter acquisition phase (Report No. CNES-337-84/CT/DRT/TIT/RL; ESA-86-97179). Toulouse, France: Centre National d'Etudes spatiales.
- 0638 Leguire, L. E. (1981). Pursuit eye movements and the depth-movement phenomenon in dynamic visual noise. Perception, 10(3), 295-298.
- 0639 Leibowitz, H. W., Abernathy, C. N., Buskirk, E. R., Bar-Or, O., & Hennessy, R. T. (1972). The effect of heat stress on reaction time to centrally and peripherally presented stimuli. Human Factors, 14(2), 155-160.
- 0640 Leist, A., Freund, H. J., & Cohen, B. (1987). Comparative characteristics of predictive eye-hand tracking. Human Neurobiology, 6(1), 19-26.
- 0641 Levin, S. (1982). Frontal lobe dysfunctions in schizophrenia: I. Eye movement impairments. Journal of Psychiatric Research, 18(1), 27-55.
- 0642 Levin, S. (1982). Saccadic eye movements of schizophrenic patients measured by reflected light technique. Biological Psychiatry, 17(11), 1277-1287.
- 0643 Levin, S. (1982). Identification of abnormal patterns in eye movements of schizophrenic patients. Archives of General Psychiatry, 39(10), 1125-1130.
- 0644 Levin, S., Lipton, R. B., & Holzman, P. S. (1981). Pursuit eye movements in psychopathology: Effects of target characteristics. Biological Psychiatry, 16(3), 255-267.

- 0645 Levin, S., Luebke, A., Zee, D. S., & Hain, T. C. (1988). Smooth pursuit eye movements in schizophrenics: Quantitative measurements with the search-coil technique. Journal of Psychiatric Research, 22(3), 195-206.
- 0646 Levine, M. (1953). Tracking performance as a function of exponential delay between the control and the display (Technical Report 53-237). Wright-Patterson Air Force Base, OH: Wright Air Development Center.
- 0647 Levine, M. (1963). Transfer of tracking performance as a function of a delay between the control and the display (Technical Report 53-237). Wright-Patterson Air Force Base, OH: Wright Air Development Center.
- 0648 Levine, R. R., O'Mara, P. A., Stamper, D. A., Molchany, J. W., & Lund, D. J. (1984). Effects of repetitive, small-spot, incoherent light flashes on pursuit tracking performance (Report No. LAIR-176). Presidio of San Francisco, CA: Letterman Army Institute of Research.
- 0649 Levinson, W. H. (1966). Two dimensional manual control systems. The 2nd Annual NASA University Conference on Manual Control, NASA SP-128, 159.
- 0650 Levinson, W. H., & Elkind, J. L. (1967). Two-dimensional manual control systems with separated displays. IEEE Transaction on Human Factors in Electronics, 8(3), 202.
- 0651 Levinson, W. H. (1981). A methodology for quantifying the effects of aging on perceptual-motor capability. Human Factors, 23(1), 87-96.
- 0652 Levy, D. L. (1983). Relatives of unipolar and bipolar patients have normal pursuit. Psychiatry Research, 10(4), 285-293.
- 0653 Levy, D. L. (1985). Pharmacologic evidence for specificity of pursuit dysfunction to schizophrenia: Lithium carbonate associated with abnormal pursuit. Archives of General Psychiatry, 42(4), 335-341.
- 0654 Levy, D. L., Lipton, R. B., Holzman, P. S., & Davis, J. M. (1983). Eye tracking dysfunction unrelated to clinical state and treatment with haloperidol. Biological Psychiatry, 18(7), 813-819.
- 0655 Lewin, J., & Olsder, G. J. (1987). Isotropic rocket - A surveillance evasion game, (Report No. REPT-87-21). Delft, Netherlands: Technische Hogeschool, Onderafdeling de Wiskunde en Informatica.
- 0656 Lewis, C. H., & Griffin, M. J. (1978). Predicting the effects of dual-frequency vertical vibration on continuous manual control performance. Ergonomics, 21(8), 637-650.
- 0657 Lewis, C. H., & Griffin, M. J. (1979). Mechanisms of the effects of vibration frequency level, and duration on continuous manual control performance. Ergonomics, 22(7), 855-889.
- 0658 Li, Y. T. (1966). Man in an adaptive and multiloop control system. The 2nd Annual NASA University Conference on Manual Control, NASA SP-128, 99.



- 0659 Lichtenstein, M. (1957). Studies on human control dynamics (Report No. 805). San Diego, CA: U.S. Naval Electronics Laboratory.
- 0660 Lincoln, R. S. (1978). Transfer of training on manual control systems differing in short period frequency and damping characteristics. Human Factors, 20(1), 83-89.
- 0661 Lips, K. W. (1972). An unstable steering task with a sonic boom disturbance. (Report No. UTIAS-TN-179). Ontario, Canada: Toronto University, Institute for Aerospace Studies.
- 0662 Lipton, R. B., Levy, D. L., Holzman, P. S., & Levin, S. (1983). Eye movement dysfunctions in psychiatric patients: A review. Schizophrenia Bulletin, 9(1), 13-32.
- 0663 Lisberger, S. G., Morris, E. J., & Tychsen, I. (1987). Visual motion processing and sensory-motor integration for smooth pursuit eye movements. Annual Review of Neuroscience, 10, 97-129.
- 0664 Llewellyn-Thomas, E., & Mackworth, N. H. (1960). Recording of eye movements by the television eye marker. Journal of the Institution of Electrical Engineers, 2 (New Series), 331-334.
- 0665 Llewellyn-Thomas, E., Mackworth, N. H., & Howat, M. R. (1960). The television eye marker as a recording and control mechanism (Report. No. 240-3; PCC Project D50-94-25-09). VA: Defense Research Medical Laboratory.
- 0666 Lloyd, A. J., Thieman, T. J., & Voor, J. H. (1970). Subjective and electromyographic assessment of isometric muscle contractions. Ergonomics, 13(6), 685.
- 0667 Lollar, T. E., & Matous, J. (1963). Observed pilot-vehicle loop-closure characteristics for hovering aircraft control. IEEE Transaction on Human Factors in Electronics, HFE-4(1).
- 0668 Lord, R., & Hulme, C. (1988). Patterns of rotary pursuit performance in clumsy and normal children. Journal of Child Psychology and Psychiatry and Allied Disciplines, 29(5), 691-701.
- 0669 Loucks, R. B. (1949). An experimental study of the effectiveness with which novices can interpret a localizer-glidepath approach indicator (Technical Report 5959). Wright-Patterson Air Force Base, OH: U.S. Air Materiel Command.
- 0670 Lovess, N. E. (1962). Direction of motion stereotypes: A review. Ergonomics, 2, 381-385.
- 0671 Lovinger, D. N., & Baker, C. A. (1963). A critique of standard reference works in human factors. Human Factors, 5(6).
- 0672 Luder, C. B., & Barber, P. J. (1984). Redundant color coding on airborne CRT displays. Human Factors, 26(1), 19-32.
- 0673 Luebke, A. E., & Robinson, D. A. (1988). Transition dynamics between pursuit and fixation suggest different systems. Vision Research, 28(8), 941-946.

- 0674 Luse, J. D. (1972). Collision avoidance systems and the rules of the nautical road. Navigation, 19(1), 80-88.
- 0675 MacAdam, C. C. (1981). Application of an optimal preview control for simulation of closed loop automobile driving. IEEE Transactions of Systems, Man, and Cybernetics, SMC-11(6), 393-399.
- 0676 Machine Design Staff (1966). Harmonic drives maneuver robot arms. Machine Design, 46.
- 0677 Machine Design Staff (1966). Joystick maneuvers, speeds, and brakes a Sub. Machine Design, 10.
- 0678 Machine Design Staff (1966). Wrist twist steering clears first public-acceptance hurdle. Machine Design, 8.
- 0679 Mack, A., & Herman, E. (1973). Position constancy during pursuit eye movement: An investigation of the Filehne illusion. Quarterly Journal of Experimental Psychology, 25(1), 71-84.
- 0680 Mack, A., & Herman, E. (1978). The loss of position constancy during pursuit eye movements. Vision Research, 18(1), 55-62.
- 0681 Mack, A., Fendrich, R., & Wong, E. (1982). Is perceived motion a stimulus for smooth pursuit. Vision Research, 22(1), 77-88.
- 0682 Mack, A., Goodwin, J., Thordarsen, H., & Benjamin, D. (1987). Motion after effects associated with pursuit eye movements. Vision Research, 27(4), 529-536.
- 0683 MacKay, D. N., & Bankhead, I. (1985). Fine motor performance in subjects of subnormal, normal and superior intelligence: IV. Task complexity and tracking. Australia and New Zealand Journal of Developmental Disabilities, 11(3), 143-150.
- 0684 Mackro, J. (1973). Study of design and control of remote manipulators Part 4: Experiments in video camera positioning with regard to remote manipulation (Report No. NASA-CR-124190). Cambridge: Massachusetts Institute of Technology, Engineer Projects Laboratory.
- 0685 MacNeilage, P. F., Sussman, H. M., & Stolz, W. (1975). Incidence of laterality effects in mandibular and manual performance of dichoptic visual pursuit tracking. Cortex, 11(3), 251-258.
- 0686 Magdaleno, R. E., & McRuer, D. T. (1965). A closed-loop neuromuscular system explanation of force disturbance regulation and tremor data. Proceedings of the 9th Annual Symposium on Human Factors in Electronics, Santa Monica, CA.
- 0687 Magdaleno R. E. (1972). Serial segments method for measuring remnant. IEEE Transactions on Systems, Man, and Cybernetics, SMC-2(5), 674-678.
- 0688 Maistro, S. A., Connors, G. J., Ruff, C., & Watson, D. (1981). Alcohol and volitional control on affect/sensation, cognitive and perceptual-motor measures. Current Psychological Research, 1(4), 235-250.

- 0689 Malmstrom, F. V. (1981). Visual fatigue: The need for an integrated model. Bulletin of the Psychonomic Society, 17(4), 183-186.
- 0690 Marken, R. (1980). The cause of control movements in a tracking task. Perceptual and Motor Skills, 51(3, Pt 1), 755-758.
- 0691 Marrocco, R. T. (1978). Saccades induced by stimulation of the frontal eye fields: Interaction with voluntary and reflexive eye movements. Brain Research, 146(1), 23-34.
- 0692 Marsh, N. W., Chang, J. W., & Rose, E. (1972). Compensatory tracking performance of children in terms of linear operator theory. Acta Psychologica, 36(5), 388-407.
- 0693 Martin, D. W., Marston, P. T., & Kelly, R. T. (1973). Measurement of organizational processes within memory stages. Journal of Experimental Psychology, 98(2), 387-395.
- 0694 Martin, E. A. (1985). The influence of tactual seat-motion cues on training and performance in a roll-axis compensatory tracking task setting. Dissertation Abstracts International, 46(3-B), 903-904.
- 0695 Mastin, W. C., Vinz, F. L., & White, P. R. (1972). Remote control and navigation tests for application to long-range lunar surface exploration. Navigation, 19(1), 42-60.
- 0696 Mastroianni, G. R., & Schopper, A. W. (1986). Degradation of force-loaded pursuit tracking performance in a dual-task paradigm. Ergonomics, 29(5), 639-647.
- 0697 Masuyama, E. (1982). A mathematical analysis of the human operator in a closed loop control system. Japanese Journal of Behaviormetrics, 9(2) (17), 48-60.
- 0698 Mateeff, S., Yakimoff, N., & Dimitrov, G. (1981). Localization of brief visual stimuli during pursuit eye movements. Acta Psychologica, 48(1-3), 133-140.
- 0699 Mateeff, S., & Hohnsbein, J. (1988). Perceptual latencies are shorter for motion towards the fovea than for motion away. Vision Research, 28(6), 711-719.
- 0700 Matheny, W. G. (1969). The effective time constant a new technique for adaptive training. Human Factors, 11(6), 557.
- 0701 Mather, J. A., & Lackner, J. R. (1980). Visual tracking of active and passive movements of the hand. Quarterly Journal of Experimental Psychology, 32(2), 307-315.
- 0702 Mather, J. A., & Lackner, J. R. (1981). Adaptation to visual displacement: Contribution of proprioceptive, visual, and attentional factors. Journal of Experimental Psychology, 10(4), 367-374.
- 0703 Mather, J. A., & Putchat, C. (1982-83). Motor control of schizophrenics: I. Oculomotor control of schizophrenics: A deficit in sensory processing, not strictly in motor control. Journal of Psychiatric Research, 17(4), 343-360.

- 0704 Mather, J. A., & Putschat, C. (1983). Parallel ocular and manual tracking responses to a continuously moving visual target. Journal of Motor Behavior, 15(1), 29-38.
- 0705 Matsue, Y. (1986). Saccadic eye movements in tracking, fixation, and rest in schizophrenic and normal subjects. Biological Psychiatry, 21(4), 382-389.
- 0706 Matsuoka, K., & Ueda, Y. (1986). Frequency characteristics of the smooth pursuit component in tracking eye movements. Ergonomics, 29(2), 197-214.
- 0707 May, J. G., Keller, E. L., & Suzuki, D. A. (1988). Smooth-pursuit eye movement deficits with chemical lesions in the dorsolateral pontine nucleus of the monkey. Journal of Neurophysiology, 59(3), 952-977.
- 0708 Mayberry, W., & Gilligan, M. B. (1985). Ocular pursuit in mentally retarded, cerebral-palsied, and learning-disabled children. American Journal of Occupational Therapy, 39(9), 589-595.
- 0709 Mayr, O. (1970). The origins of feedback control. Scientific American, 223, 110-118.
- 0710 McBride, D. K., Goodman, L. S., & Owens, J. M. (1985). Simple and choice reaction time in a secondary task under varied stimulus modality probabilities (Report No. NAMRL-1313). Pensacola, FL: U.S. Naval Aerospace Medical Research Laboratory.
- 0711 McCloy, T. M. (1979). Measures of time-sharing skill and gender as predictors of flight simulator performance (Report No. AFIT-CI-79-273D). Wright-Patterson Air Force Base, OH: U.S. Air Force Institute of Technology.
- 0712 McConnell, D., & Shelly M. W. (1959). Tracking performance on a sequence of step functions which approaches a continuous function as a limit (Technical Report 59-43). Wright-Patterson Air Force Base, OH: Wright Air Development Center.
- 0713 McCord, D. M. (1985). Control theory: A new look at purposive behavior. Dissertation Abstracts International, 45(7-B), 2298.
- 0714 McCoy, D. F., & Bhagat, P. K. (1977). The development maintenance and mathematical description of tracking behavior in man and the rhesus monkey (Report No. AFOSR-TR-77-0966). Lexington: Kentucky University Research Foundation.
- 0715 McDonald, J. D., Bahill, A. T., & Friedman, M. B. (1983). An adaptive control model for human head and eye movements while walking. IEEE Transactions on Systems, Man, and Cybernetics, SMC-13(2), 167-174.
- 0716 McDonnell, J. D. (1969). An application of measurement methods to improve the quantitative nature of pilot rate scales. IEEE Transactions on Man-Machine Systems, MMS-10(3), 81.
- 0717 McFreely, T. E. (1972). Pupil diameter and the cross-adaptive critical tracking task: A method of workload measurement. Unpublished master thesis, Naval Postgraduate School Monterey, CA.

- 0718 McGrath, J. J., & Harris, D. H. (1971). Adaptive training. Aviation Research Monographs, 1(2), 130.
- 0719 McLane, R. C., Sperling, H. G., Anderson, D. A., & Senders, J. W. (1964). Manual control and display in six-degrees-of-freedom. Proceedings of the 5th National Symposium on Human Factors in Electronics, San Diego, CA.
- 0720 McLane, R. C., & Wolf, J. D. (1967). Symbolic and pictorial displays for submarine control. IEEE Transactions on Human Factors in Electronics, 8(2).
- 0721 McLean, J. R., & Hoffman, E. R. (1971). Analysis of drivers' control movements. Human Factors, 13(5), 407-418.
- 0722 McLean, J. R., & Hoffman, E. R. (1973). The effects of restricted preview on driver steering control and performance. Human Factors, 15(4), 421-430.
- 0723 McLeod, P. D. (1973). Response strategies with a cross-coupled control system. Journal of Experimental Psychology, 97(1), 64-69.
- 0724 McLeod, P. D. (1977). A dual task response modality effect: Support for multiprocessor models of attention. Quarterly Journal of Experimental Psychology, 29, 651-667.
- 0725 McLeod, P. D. (1972). Recovery strategy duration of a tracked target. Ergonomics, 15(1), 57-64.
- 0726 McLeod, R. W., & Griffin, M. J. (1988). Performance of a complex manual control task during exposure to vertical whole-body vibration between 0.5 and 5.0 Hz. Ergonomics, 31(8), 1193-1203.
- 0727 McPhate, A. J., & Fleming, D. R. (1977). An aerial gunnery aerodynamic lead pursuit model (Report No. AFATL-TR-77-85). Louisiana State University-Baton Rouge, Division of Engineering Research.
- 0728 McRuer, D. T. (1966). Some neuromuscular subsystems dynamics. The 2nd Annual NASA University Conference on Manual Control, NASA SP-128, 39.
- 0729 McRuer, D. T., & Weir, D. (1969). Theory of manual vehicular control. Ergonomics, 12(4), 599.
- 0730 McRuer, D. T., & Jex, H. R. (1967). A review of quasi-linear pilot models. IEEE Transactions on Human Factors in Electronics, 8(3), 231.
- 0731 McRuer, D. T. & Krendel, E. S. (1957). Dynamic response of human operators (Technical Report 56-524). Wright-Patterson Air Force Base, OH: Wright Air Development Center.
- 0732 McRuer, D. T., Magdaleno, R. E., & Moore, G. P. (1968). A neuromuscular actuation system model. IEEE Transactions on Man-Machine Systems, 9(3), 61.
- 0733 Mead, P. G., & Sampson, P. B. (1972). Hand steadiness during unrestricted linear arm movements. Human Factors, 14(1), 45-50.

- 0734 Mechler, E. A., Russell, J. B., & Preston, M. G. (1949). The basis for the optimum aided tracking time constant. Journal of the Franklin Institute, 248, 324-334.
- 0735 Medical Research Council (1966). Human performance reports, (List No. 12, Autumn). Washington, DC: Medical Research Council.
- 0736 Megaw, E. D. (1972). Directional errors and their correction in a discrete tracking task. Ergonomics, 15(6), 633-643.
- 0737 Mehr, M. H. (1969). A 2-axis manual positioning control with digital output. Paper presented at the IEE-GMMS ERS International Symposium, Cambridge, England.
- 0738 Mehr, M. H. (1958). Optical missile tracker (Electronic Equipment Engineering Internal Report). Norwalk, CN: Measurement Systems Incorporated.
- 0739 Mehr, M. H. (1967). Prediction of human operator performance in two dimensional tracking and positioning systems. Paper presented at the 3rd International Congress on Ergonomics, Birmingham, England.
- 0740 Mehr, M. H. (1968). Servo control system for a large optical tracking instrument. AIEE, D. P. 57-578.
- 0741 Mehr, M. H. (1973). Two-axis manual positioning and tracking controls. Applied Ergonomics, 4(3), 154-157.
- 0742 Mehr, M. H., & Mehr, E. (1973). Manual digital positioning in 2 axes: A comparison of joystick and trackball controls. NEREM 73 Record Part 4: Displays, IEEE Catalog No. 73 CHO 842-5 NEREM, 168-175.
- 0743 Mehr, M. H., & Mehr, E. (1972). Manual digital positioning in 2 Axes: A comparison of joystick and trackball controls. Proceedings of the 16th Annual Meeting of the Human Factors Society, 110-116.
- 0744 Meister, D., & Farr, D. E. (1967). The utilization of human factors information by designers. Human Factors, 9(1), 71.
- 0745 Meister, D., & Sullivan, D. J. (1968). Human factors: Blind spot. Electro-Technology, 39-47.
- 0746 Mendez, A. J., Freitag, M., & Zinn, W. (1972). Human factors analysis of forward looking infrared (FLIR) imagery in air-to-ground target detection recognition. Proceedings of the 16th Annual Meeting of the Human Factors Society, 148-152.
- 0747 Mengelkoch, R. F., Adams, J. A., & Gainer, C. A. (1971). The forgetting of instrument flying skills. Human Factors, 13(5), 397-405.
- 0748 Meyer, A. U. (1981). Dynamics of two-dimensional eye-head tracking (Report No. AFOSR-TR-81-0610). Newark: New Jersey Institute of Technology, Department of Electrical Engineering.

- 0749 Meyer, C. H., Lasker, A. G., & Robinson, D. A. (1985). The upper limit of human smooth pursuit velocity. Vision Research, 25(4), 561-563.
- 0750 Michalski, A., & Moroz, B. (1977). The effects of pursuit eye movements on single unit activity in cat visual cortex. Acta Neurobiologiae Experimentalis, 37(5), 261-274.
- 0751 Miller, B. (1973). RPV's provide U.S. new weapons options. Aviation Week and Space Technology, 98(4), 38-43.
- 0752 Miller, D. C. (1965). The effects of performance-scoring criteria on compensatory tracking behavior IEEE Transactions on Human Factors in Electronics, 6(1), 62.
- 0753 Miller, D. C. (1965). The effects of performance scoring criteria on compensatory tracking behavior. IEEE Transactions on Human Factors in Electronics, September, 62-65.
- 0754 Miller, D. C., & Elkind, J. I. (1967). The adaptive response of the human controller to sudden changes in controller process dynamics. IEEE Transactions on Human Factors in Electronics, 8(3), 218.
- 0755 Miller, G.K. Jr., & Riley, D. R. (1977). The effect of visual-motion time-delays on pilot performance in a simulated pursuit tracking task (Report No. TM-D-8364; L-11062). Langley Station, VA: National Aeronautics and Space Administration, Langley Research Center.
- 0756 Miller, G.K., Jr., & Riley, D. R. (1978). Evaluation of several secondary tasks in the determination of permissible time delays in simulator visual and motion cues (Report No. TP-1214; L-12006). Langley Station, VA: National Aeronautics and Space Administration, Langley Research Center.
- 0757 Miller, J. M. (1973). Visual behavior changes of student pilots flying instrument approaches. Proceedings of the 17th Annual Meeting of Human Factors Society, 208-214.
- 0758 Miller, J. M. (1978). Information available to the perceptual and oculomotor systems regarding saccadic and pursuit eye movements. Dissertation Abstracts International, 39(2-B), 1016-1017.
- 0759 Miller, J. M. (1980). Information used by the perceptual and oculomotor systems regarding the amplitude of saccadic and pursuit eye movements. Vision Research, 20(1), 59-68.
- 0760 Miller, J. M., Ono, H., & Steinbach, M. J. (1980). Additivity of fusional vergence and pursuit eye movements. Vision Research, 20(1), 43-47.
- 0761 Miller, J. S., & Walsh, W. P. (1970). Weak muscle control of powered orthotic devices. Proceedings of the 23rd Annual Conference on Engineering in Medicine and Biology, 12, 238.
- 0762 Miller, T. P., Taylor, J. L., & Tinklenberg, J. R. (1988). A comparison of assessment techniques measuring the effects of methylphthalate, secobarbital, diazepam and diphenhydramine in abstinent alcoholics. Neuropsychobiology, 19(2), 90-96.

- 0763 Mills, R. G., & Williges, R. C. (1973). Performance prediction in a single-operator simulated surveillance system. Human Factors, 15(4), 337-348.
- 0764 Milnes-Walker, N. D. (1971). A study of pursuit and compensatory tracking of auditory pitch. Ergonomics, 14(4), 479-486.
- 0765 Milton, J. L. (1946). An experimental comparison of the accuracy of tracking, ranging and triggering with two new type gunsight hand controls (Memorandum Report No. TSEAA-694-2a). Wright-Patterson Air Force Base, OH: U.S. Air Materiel Command.
- 0766 Mirabella, A. (1969). Two-dimensional versus three-dimensional tracking under two modes of error feedback. Human Factors, 11(1), 9.
- 0767 Mirchandani, P. B. (1972). An auditory display in a dual-axis tracking task. IEEE Transactions on Systems, Man, and Cybernetics, SMC-2(3), 375-380.
- 0768 Mitrani, L., & Dimitrov, G. (1978). Pursuit eye movements of a disappearing moving target. Vision Research, 18(5), 537-539.
- 0769 Mitrani, L., & Dimitrov, G. (1982). Retinal location and visual localization during pursuit eye movement. Vision Research, 22(8), 1047-1051.
- 0770 Molchany, J. W., Stamper, D. A., & Levine, R. R. (1985). Pursuit tracking performance and flash disruption: The effects of training the non-dominant eye on target reacquisition (Report No. LAIR-196). Presidio of San Francisco, CA: Letterman Army Institute of Research.
- 0771 Molchany, J. W., Stamper, D. A., & Lund, D. J. (1987). Pursuit tracking performance decrements associated with decreasing ambient illumination (Report No. LAIR-243). Presidio of San Francisco, CA: Letterman Army Institute of Research.
- 0772 Monseur, M. (1969). Drivers' decision making at road intersection. International Symposium on Man-Machine Systems. (IEEE Conference Record No. 69C58-MMS.)
- 0773 Monty, R. A., Obermaier, J. E., & Ruby, W. J. (1963). A bibliography of research on human tracking performance (CAL Report No. 131). Buffalo, NY: Cornell Aeronautics Laboratory.
- 0774 Monty, R. A., & Ruby, W. J. (1965). Effects of added work load on compensatory tracking for maximum terrain following. The Journal of the Human Factors Society, 7(3), 207.
- 0775 Mooij, H. A. (1977). Handling quality criteria development for transport aircraft with fly-by-wire primary control systems (Technical Report 74141-U). Amsterdam, Netherlands: National Aerospace Laboratory, Flight Dynamics Division.
- 0776 Moore, M. K., Borton, R., & Darby, B. L. (1978). Visual tracking in young infants: Evidence for object identity or object permanence? Journal of Experimental Child Psychology, 25(2), 183-198.



- 0777 Moray, N., Synnack, G., & Richards, S. (1973). Tracking a static display. IEEE Transactions on Systems, Man, and Cybernetics, SMC-3(5), 518-521.
- 0778 Moray, N. (1981). Feedback and the control of skilled behavior. In D. Holding (Ed.), Human Skills. New York: Wiley and Sons.
- 0779 Moray, N., King, B., Turksen, B., & Waterton, K. (1987). A closed-loop causal model of workload based on a comparison of suzzy and crisp measurement techniques. Human Factors, 29(3), 339-348.
- 0780 Morehouse, L. E. (1969). Model of a system utilizing heart rate to monitor man at work in an alien environment. International Symposium on Man-Machine Systems, (IEEE Conference Record No. 69C58-MMS.)
- 0781 Morgan, M. J., Findlay, J. M., & Watt, R. J. (1982). Aperture viewing: A review and a synthesis. Quarterly Journal of Experimental Psychology: Human Experimental Psychology, 34A(2), 211-233.
- 0782 Morgan, M. J., & Turnbull, D. F. (1978). Smooth eye tracking and the perception of motion in the absence of real movement. Vision Research, 18(8), 1053-1059.
- 0783 Morgan, M. J., & Watt, R. J. (1982). Effect of motion sweep duration and number of stations upon interpolation in discontinuous motion. Vision Research, 22(10), 1277-1284.
- 0784 Morizumi, N., & Kimura, H. (1985-86). Pilot's behavior of detecting a system parameter change. Japan Society for Aeronautical and Space Sciences Journal (Japan), 33(380), 531-539.
- 0785 Morony, W. F. (1972). The use of bivariate distributions in achieving antropometric compatibility in equipment design Part 1: The requirement. Proceedings of the 16th Annual Meeting of the Human Factors Society, 16-18.
- 0786 Morrill, C. S., & Davies, B. L. (1961). Target tracking and acquisition in three dimensions using a two-dimensional display surface. Journal of Applied Psychology, 45(4), 214-221.
- 0787 Morris, N. M., & Rouse, W. B. (1986). Adaptive aiding for human-computer control: Experimental studies of dynamic task allocation (Technical Report 3; AAMRL-TR-86-005). Burlington, MA: Alphatech Incorporated.
- 0788 Morris, N. M., Rouse, W. B., & Ward, S. L. (1988). Studies of dynamic task allocation in an aerial search environment. IEEE Transactions on Systems, Man, and Cybernetics, 18(3), 376-389.
- 0789 Mortimer, R. G., & Sturgis, S. P. (1975). Effects of alcohol on driving skills. (Report No. UM-HSRI-HS-75-1). Ann Arbor: Michigan University, Highway Safety Research Institute.
- 0790 Mountcastle, V. B. (1976). The world around us: Neural command functions for selective attention. Neurosciences Research Program Bulletin, No. 14, (Suppl) 1-47.

- 0791 Mourant, R. R., & Rockwell, T. H. (1970). Mapping eye-movement patterns to the visual scene in driving: An exploratory study. Human Factors, 12(1), 81.
- 0792 Muckler, F. A. (1960). Man-machine tracking performance with short period oscillatory Control System Transients (Technical Report 60-3). Wright-Patterson Air Force Base, OH: Aeronautical Systems Division .
- 0793 Muckler, F. A. (1961). The design of operator controls: A selected bibliography (Technical Note 60-277; Contract No. AF 33 (616)-7752). Wright-Patterson Air Force Base, OH: Wright Air Development Center, Aerospace Medical Laboratory.
- 0794 Murphy, B. J. (1978). Pattern thresholds for moving and stationary gratings during smooth eye movement. Vision Research, 18(5), 521-530.
- 0795 Murrell, J. F. (1969). Multidimensional scaling of an aircraft handling rating scale. Ergonomics, 12(6), 925.
- 0796 Myasnikov, V. I., Ryzhov, B. N., & Sainitsky, V. P. (1985). Zone of functional comfort for the operator controlling a moving object. Kosmicheskaya Biologiya i Aviakosmicheskaya Meditsina, 19(2), 17-19.
- 0797 Nagumo, J., Noda, A., & Sato, S. (1970). Real-time display system of response characteristics of manual tracking systems. IEEE Transactions on Man-Machine Systems, MMS-11(4), 211.
- 0798 National Aeronautics and Space Administration, Washington, DC. The 7th Annual Conference on Manual Control, NASA-SP-281.
- 0799 Navon, D., & Gopher, D. (1978). Interpretations of task difficulty in terms of resources: Efficiency, load, demand, and cost composition (Report No. AFOSR-79-0828; AFOSR-78-1). Technion, Israel: Institute of Technology-Haifa, Faculty of Industrial and Management Engineering.
- 0800 Neilson, P. D., & Neilson, M. D. (1980). Influence of control-display compatibility on tracking behavior. Quarterly Journal of Experimental Psychology, 32(1), 125-135.
- 0801 Nelson, C. L., London, R. M., & Robinson, G. H. (1978). Effects of information processing requirements on reaction time of the eye (Technical Report 78-10). Wisconsin University -Madison.
- 0802 Nevins, J. L., & Johnson, I. S. (1972). Man's role in integrated vehicular information management systems. Navigation, 19(1), 29-41.
- 0803 Newcomb, F. N. (1963). Viscous-damping mechanisms as applied to four-inch rocket launcher mount (Technical Note 5-63). Aberdeen Proving Ground, MD: U.S. Army Human Engineering Laboratory.
- 0804 Newsom, T. J., Jaeger, R. J., & Bachman, J. A. (1976). Training and performance of rhesus monkeys as operators in a compensatory manual control system. Perceptual and Motor Skills, 42(3, Pt. 1), 695-705.

- 0805 Newton, J. M. (1958). An investigation of tracking performance in the cold with two types of controls (Report No. 324). San Antonio, TX: U.S. Army Medical Research Laboratory.
- 0806 Nicholson, R. M. (1966). The feasibility of a helmet mounted sight as a control device. Human Factors, 8(5), 417.
- 0807 Nicola, J. F. (1968). John F. RADOT A new system for optical range Instrumentation. Society of Photoptical Instrumentation Engineers Seminar Proceedings, 97.
- 0808 Nishida, T., & Inomata, K. (1985). Function of achievement motivation in learning rotary pursuit tracking. Perceptual and Motor Skills, 60(3), 851-857.
- 0809 Noble, C. E., & Noble, C. S. (1972). Pursuit tracking skill with separate and combined visual and auditory feedback. Journal of Motor Behavior, 4(3), 195-205.
- 0810 Noble, C. E. (1978). Age, race, and sex in the learning and performance of psychomotor skills, 352. In Osborne, Noble, and Weyl, (Eds.), Human variation: The Biopsychology of Age, Race, and Sex. New York: Academic Press.
- 0811 Noble, C. E., Salazar, O. G., Skelley, C. S., & Wilkerson, H. R. (1979). Working and rest variables in the acquisition of psychomotor tracking skill. Journal of Motor Behavior, 11(4), 223-246.
- 0812 Noble, M. E., Fitts, P. M., & Warren, C. E. (1955). The frequency response of skilled subjects on a pursuit tracking task. Journal of Experimental Psychology, 49, 249-256.
- 0813 Noble, M. E., & Sanders, A. F. (1980). Searching for traffic signals while engaged in compensatory tracking. Human Factors, 22(1), 89-102.
- 0814 Noble, M. E., & Trumbo, D. A. (1967). The organization of skilled response. Organizational Behavior and Human Performance, 2, 1-25.
- 0815 Noble, M. E., Fitts, P. M., & Marlowe, E. (1953). The interrelations of task variables in continuous pursuit tasks: II: Visual-display scale, arm-control scale, and target frequency in compensatory tracking (Research Bulletin, pp. 53-55). Lackland Air Force Base, TX: Air Research and Development Command.
- 0816 Noll, A. M. (1972). Man-machine tactile communication. Society for Information Display Journal, 1(2), 5-11, 30.
- 0817 Noll, A. M. (1972). Real-time interactive stereoscopy. Society for Information Display Journal, 1(3), 14-22.
- 0818 Norman, D. A., & Matheny, W. G. (1972). Need for within-trial feedback as a function of task similarity in adaptive training of manual controls. Proceedings of the 16th Annual Meeting of the Human Factors Society, 136-139.
- 0819 North, J. D. (1952). The human transfer function in servo systems. In A. Tustin (Ed.), Automatic and Manual Control (pp. 473-501). London: Butterworth's Scientific Publications.

- 0820 North, R. A. (1977). Task components and demands as factors in dual-task performance (Report No. ARL-77-2/AFOSR-77-2). Illinois University at Urbana-Champaign, Savoy Aviation Research Laboratory.
- 0821 North, R. A., & Gopher, D. (1974). Basic attention measures as predictors of success in flight training (Report No. ARL-74-14/AFOSR-74-9; AFOSR-TR-75-0388). Illinois University at Urbana-Champaign, Savoy Aviation Research Laboratory.
- 0822 Notterman, J. M., & Page, D. E. (1962). Evaluation of mathematically equivalent tracking systems. Monograph Supplement 8-V15 Perceptual and Motor Skills, 15, 683-716.
- 0823 Notterman, J. M., & Tufano, D. R. (1980). Variables influencing outflow-inflow interpretations of tracking performance: Predictability of target motion transfer function and practice. Journal of Experimental Psychology: Human Perception and Performance, 6(1), 85-88.
- 0824 Notterman, J. M., Tufano, D. R., & Harpsky, J. S. (1982). Visual-motor organization: Differences between and within individuals. Perceptual and Motor Skills, 54(3), 723-750.
- 0825 Nowak, E. (1972). Angular measurements of foot motion for application to the design of foot pedals. Ergonomics, 15(4), 407-415.
- 0826 Nunnely, S. A., Dowd, P. J., Myhre, L. G., Stribley, R. F., & McNee, R. C. (1979). Tracking task performance during heat stress simulation cockpit conditions in high performance aircraft. Ergonomics, 22(5), 549-555.
- 0827 Obermayer, R. W., Swartz, W. F., & Muckler, F. A. (1961). The interaction of information displays with control system dynamics in continuous tracking. Journal of Applied Psychology, 45, 369-375.
- 0828 Obermayer, R. W., & Muckler, F. A. (1964). Modern control system theory and human control functions. Proceedings of the 5th National Symposium on Human Factors in Electronics, San Diego, CA.
- 0829 Obermayer, R. W., Webster, R. B., & Muckler, F. A. (1966). Studies in optimal behavior in manual control systems: The effect of four performance criteria in compensatory rate-control tracking. The 2nd Annual NASA University Conference on Manual Control, NASA SP-128, 311.
- 0830 O'Leary, A., McMahon, M. L., & Wallach, H. (1988). Perception of complex motion paths under three conditions of stimulation. Perception and Psychophysics, 43(4), 339-345.
- 0831 Olken, F. (1986, July). Physical database support for scientific and statistical database management (Report No. LBL-19940; CONF-860751-2). Berkeley: California University, Lawrence Berkeley Laboratory.
- 0832 Olson, B. A. (1967). Hybrid simulation of VTOL flight. IEEE Transactions on Human Factors in Electronics. HFE-8(2).

- 0833 Olson, P. L., & Thompson, R. R. (1970). The effect of variable-ratio steering gears on driver preference and performance. Human Factors, 12(6), 553.
- 0834 O'Mara, P. A., Stamper, D. A., Beatrice, E. S., & Lund, D. J. (1980). Laboratory investigations of biomedical factors influencing laser designator operator performance (Technical Report). Presidio of San Francisco, CA: Letterman Army Institute of Research.
- 0835 O'Mara, P. A., Stamper, D. A., Lund, D. J., & Beatrice, E. S. (1980). Chromatic strobe flash disruption of pursuit tracking performance (Report No. LAIR-88). Presidio of San Francisco, CA: Letterman Army Institute of Research.
- 0836 Ong, J., & Harman, G. A. (1979). Eye movements simultaneously recorded by electrooculographic and photoelectric methods. Perceptual and Motor Skills, 48(2), 619-624.
- 0837 Optician, L. M., Zee, D. S., & Chu, F. C. (1985). Adaptive response to ocular muscle weakness in human pursuit and saccadic eye movements. Journal of Neurophysiology, 54(1), 110-122.
- 0838 Orlansky, J., & Dunlap, J. W. (1948). The human factor in the design of stick and rudder controls for aircraft, (Report 151-1-8). VA: Defense National Research.
- 0839 Osafo, C., Frank, A., Gyan, C., O'Neill, W. D., & Gottlieb, G.L. (1980). Application of time-series modeling to human operator dynamics. IEEE Transactions on Systems, Man, and Cybernetics, 10(12), 849-860.
- 0840 Ostroff, A. J., & Romanczyk, K. C. (1973). Design and evaluation of an optical fine-pointing control system for telescopes utilizing a digital star sensor (Report No. TN-D-7204; L-8677). Langley Station, VA: National Aeronautics and Space Administration, Langley Research Center.
- 0841 Oxendine, H. B. (1968). Psychology of motor learning. New York: Appleton-Century-Crofts.
- 0842 Pachter, M., & Yavin Y. (1983). Simple-motion pursuit-evasion differential games in the plane (Report No. CSIR-TWISK-336). Pretoria, South Africa: National Research Institute for Mathematical Sciences.
- 0843 Padilla, C. S. (1974). Minimax terminal state estimation under exponentiated generalized quadratic loss (Report No. UILU-ENG-74-2220; R-654). Illinois University-Urbana, Coordinated Science Laboratory.
- 0844 Parrish, R. V., Mckissick, B. T., & Ashworth, B. R. (1983). Comparison of simulator fidelity model predictions with in-simulator evaluation data (Report No. NASA 1.60:2106; L-15519; NASA-TP-2106). Hampton, VA: National Aeronautics and Space Administration, Langley Research Center.
- 0845 Parrott, E. L. (1978). Combat performance advantage. A method of evaluating air combat performance effectiveness (Technical Report 78-36). Wright-Patterson Air Force Base, OH: Aeronautical Systems Division.
- 0846 Pass, H. L. (1978). The effect of distraction on acute schizophrenics' visual tracking. Biological Psychiatry, 13(5), 587-593.

- 0847 Patterson, R. P., Munsch, J., & Kubicek, W. G. (1970). A strain sensor controlled orthotic splint. Proceedings of the 23rd Annual Conference on Engineering in Medicine and Biology, 12, 239.
- 0848 Payne, R. B. (1981). Reminiscence theory: A reply to Frith and Eysenck. Perceptual and Motor Skills, 53(3), 869-870.
- 0849 Payne, R. B., & Huang, K. L. (1977). Interaction of sex and task differences in reminiscence. Journal of Motor Behavior, 9(1), 29-32.
- 0850 Peacock, J. B., & Price, M. D. (1972). Equipment note, Apparatus for the investigation of sensori-motor skills. Ergonomics, 15(4), 407-415.
- 0851 Pearson, P. (1982). Effects of post-hypnotic suggestion on the performance of a fine motor skill. Australian Journal of Clinical Hypnotherapy, 3(2), 75-84.
- 0852 Pearson, R. G. (1966). Performance tasks for operator skills research, (Report No. AM-66-19). Oklahoma City, OK: Federal Aviation Agency.
- 0853 Penetar, D. N., & Beatrice, E. S. (1986). Effects of atropine on human pursuit tracking performance. Aviation, Space, and Environmental Medicine, 57(7), 654-658.
- 0854 Penetar, D. N., Haegerstrom-Portnoy, G., & Jones, R. T. (1988). Combined atropine and 2-PAM Cl effects on tracking performance and visual, physiological, and psychological functions. Aviation, Space, and Environmental Medicine, 59(12), 1125-1132.
- 0855 Pennington, J. E., Hatch, H. G., Jr, Long, E. R., & Cobb, J. B. (1965). Visual aspects of a full pilot controlled simulation of the gemini-agenda docking (Report No. TN D-2632). Washington, DC: National Aeronautics and Space Administration.
- 0856 Perriment, A. D. (1969). The effect of signal characteristics on reaction time using bisensory stimulation. Ergonomics, 12(1), 71.
- 0857 Perry, B. L. (1967). The system approach to the design of an optical landing display. IEEE Transactions on Human Factors in Electronics, 8(4), 269.
- 0858 Perry, B. L., & Birmingham, H. P. (1968). Joystick dynamics. Human Factors, 10(4), 413.
- 0859 Petersen, H. E., & Dugas, D. J. (1972). The relative importance of contract and motion in visual detection. Human Factors, 14(3), 207-216.
- 0860 Peterson, J. R. (1965). Response-response compatibility effects in a two-hand pointing task. The Journal of the Human Factors Society, 7(3), 231.
- 0861 Pew, R. W. (1964). A model of human controller performance in a relay control system. Proceedings of the 5th National Symposium on Human Factors in Electronics, San Diego, CA, 241.

- 0862 Pew, R. W. (1966). Performance of human operators in a three-state relay control system with velocity-augmented displays. IEEE Transactions on Human Factors in Electronics, 7(2), 77.
- 0863 Pew, R. W., Duffendack, J. C., & Fensch, L. K. (1966). On the relation between discrete and continuous performance. Proceedings of the 7th National Symposium of Human Factors in Electronics, New York, NY.
- 0864 Pew, R. W., Duffendack, J. C., & Fensch, L. K. (1966). Sine-wave tracking revisited. IEEE Transactions Human Factors in Electronics, 8(2).
- 0865 Pew, R. W., Duffendack, J. C., & Fensch, L. K. (1966). Summary of sine-wave tracking studies. The 2nd Annual NASA University Conference on Manual Control, NASA SP-128, 15.
- 0866 Pew, R. W., Duffendack, J. C., & Fensch, L. K. (1967). Sine wave tracking revisited. IEEE Transactions on Human Factors in Electronics, 8(2), 130-134.
- 0867 Pierce, J. R. (1962). Symbols, signals, and noise. London: Hutchinson.
- 0868 Pitkin, E. T., Vinje, E. W. (1973). Comparison of human operator critical tracking task performance with aural and visual displays. IEEE Transactions on Systems, Man, and Cybernetics, SMC-3(2), 184-187.
- 0869 Pivik, R. T. (1979). Smooth pursuit eye movements and attention in psychiatric patients. Biological Psychiatry, 14(6), 859-879.
- 0870 Pivik, R. T., Bylsma, F. W., Cooper, P. M., & Nair, N. V. (1987). The effects of dark adaptation on pursuit tracking dysfunction in psychotics with impaired vestibular suppression. Progress in Neuro-Psychopharmacology and Biological Psychiatry, 11(2-3), 259-265.
- 0871 Planchard, J. A., Barzinji, J., & Perkins, T. (1972). Determination of tracking errors in an antiaircraft environment (Report No. AFATL-TR-72-165). Louisiana State University-Baton Rouge, College of Engineering.
- 0872 Planchard, J. A., Barzniji, J., & Perkins, T. (1972). A deterministic model of a human performing compensatory tracking (Report No. LSU-T-TR-49; AFOSR-TR-72-1348). Louisiana State University-Baton Rouge, College of Engineering.
- 0873 Planchard, J. A., & Barzniji, J. (1973). Determination of tracking errors in an antiaircraft environment - Phase II (Report No. AFATL-TR-73-70). Louisiana State University-Baton Rouge, College of Engineering.
- 0874 Plath, D. W., & Offenstien, R. E. (1972). Performance measures for submarine ship control. Proceedings of the 16th Annual Meeting of the Human Factors Society, 96.
- 0875 Platzer, H. L. (1955). A non-linear approach to human tracking (Technical Report). Philadelphia, PA: The Franklin Institute.
- 0876 Poirer, J. H. (1952). A method for determining the optimum gear ratios for radar aided tracking mechanisms navy electronics (Laboratory Report 300). Port Washington, NY: Naval Training and Device Center.

- 0877 Pola, J., & Wyatt, H. J. (1985). Active and passive smooth eye movements: Effects of stimulus size and location. Vision Research, 25(8), 1063-1076.
- 0878 Pope, L. T. (1962). Attention level and visual and auditory monitoring performance (No. AMRL-TDR-62-97). San Antonio, TX: U.S. Army Medical Research Laboratory.
- 0879 Post, R. B., & Leibowitz, H. W. (1985). A revised analysis of the role of efference in motion perception. Perception, 14(5), 631-643.
- 0880 Post, R. B., Scupert, C. L., & Leibowitz, H. W. (1984). Implications of OKN suppression by smooth pursuit for induced motion. Perception and Psychophysics, 36(5), 493-498.
- 0881 Potter, A. G. (1970). Myoelectric control characteristics. Proceedings of the 23rd Annual Conference on Engineering in Medicine and Biology, 12, 243.
- 0882 Poulton, E. C. (1957). Pursuit tracking with partial control of the input. American Journal of Psychology, 70, 631-633.
- 0883 Poulton, E. C. (1962). On simple methods of scoring tracking error. Psychological Bulletin, 59, 320-328.
- 0884 Poulton, E. C. (1966). Tracking behavior. In E.A. Bilodeau (Eds.), Acquisition of Skill. New York: Academic Press.
- 0885 Poulton, E. C. (1969). Tracking. In Bilodeau & Bilodeau, (Eds.), Principles of Skill Acquisition. New York: Academic Press.
- 0886 Poulton, E. C. (1974). Tracking skill and manual control. New York: Academic Press.
- 0887 Poulton, E. C. (1981). Human manual control. In V.B. Brooks (Ed.), Handbook of physiology: The nervous system (Vol. 2, pp. 1337-1389). Bethesda, MD American Psychological Society.
- 0888 Povenmire, H. K., & Roscoe, S. N. (1971). An evaluation of ground-based flight trainers in routine primary flight training. Human Factors, 13(2), 109.
- 0889 Pracher, J. M. (1988). Response equivocation analysis for the smart stick controller (Report No. AFIT/GE/ENG/88D-38). Wright-Patterson Air Force Base, OH: U.S. Air Force Institute of Technology, School of Engineering.
- 0890 Preston, B. (1969). Insurance classifications and drivers' galvanic skin response Ergonomics, 12(3), 437.
- 0891 Pribyl, V. J., Edwards, A., Lund, D. J., Zwick, H., & O'Mara, P. A. (1985). M-BLASER. A device to study pursuit tracking in the rhesus monkey (Report No. LAIR-85-54). Presidio of San Francisco, CA: Letterman Army Institute of Research.
- 0892 Price, D. L. (1970). Operator-mounted controllers for precision tracking. Human Factors, 12(5), 485.



- 0893 Price, D. R. (1975). A study of the effect of peripheral vision motion cues on roll axis tracking (Report No. GE/EE/75-37). Wright-Patterson Air Force Base, OH: U.S. Air Force Institute of Technology, School of Engineering.
- 0894 Privoznik, C. M., & Berry, D. T. (1986). Comparison of pilot effective time delay for cockpit controllers used on space shuttle and conventional aircraft (Report No. NASA 1.15:86030; H-1222, NASA-TM-86030). Moffett Field, CA: National Aeronautics and Space Administration, Ames Research Center.
- 0895 Product Engineering Staff (1966). Joy stick helps driver to keep a safe distance. Product Engineering, 32.
- 0896 Product Engineering Staff (1968). Two axis ball control offers unlimited tracking resolution. Product Engineering, 39(3), 74.
- 0897 Product Engineering Staff (1972). V/Stol aircraft. Product Engineering, 52-53.
- 0898 Psiaki, M. L. (1987). Safe microburst penetration techniques: A deterministic, nonlinear, optimal control approach. In NASA. Langley Research Center Joint University Program for Air Transportation Research Proceedings, 139-148, 1984.
- 0899 Putz, V. R., & Rothe, R. (1974). Peripheral signal detection and concurrent compensatory tracking. Journal of Motor Behavior, 6(3), 155-163.
- 0900 Putz, V. R., Johnson, B. L., & Swtzer, J. V. (1976). Effects of CO on vigilance performance - Effects of low level carbon monoxide on divided attention, pitch discrimination, and the auditory evoked potential (Report No. DHEW/PUB/NIOSH-77/124). Cincinnati, OH: National Institute for Occupational Safety and Health.
- 0901 Quick-change display selected for U.S. Air Force system (Aviation Staff) (1972). Aviation Week, and Space Technology, 97(18), 47.
- 0902 Ramsey, J. D., & Beshir, M. Y. (1980). Subjective estimates of physiological responses and perceptual-motor performance in the heat. Applied Ergonomics, 11(4), 194-198.
- 0903 Ranalli, P. J., Sharpe, J. A., & Fletcher, W. A. (1988). Palsy of upward and downward saccadic, pursuit, and vestibular movements with a unilateral midbrain lesion: Pathophysiologic correlations. Neurology, 38(1), 114-122.
- 0904 Rawlings, E. I., & Rawlings, I. L. (1974). Rotary pursuit tracking following mental rehearsal as a function of voluntary control of visual imagery. Perceptual and Motor Skills, 38(1), 302.
- 0905 Rawlings, E. I., Rawlings, I. L., Chen, S. S., & Yilk, M. D. (1972). The facilitating effects of mental rehearsal in the acquisition of rotary pursuit tracking. Psychonomic Science, 26(2), 71-73.
- 0906 Raymond, J. E., Shapiro, K. L., & Rose, D. J. (1984). Optokinetic backgrounds affect perceived velocity during ocular tracking. Perception and Psychophysics, 36(3), 221-224.

- 0907 Reed, J. D. (1953). Design of controls for positioning a marker quickly and accurately (Progress Report No. 1 AF30 (602)-573). Rome Air Force Base, NY: Air Development Center.
- 0908 Reed, J. D. (1953). Speed and accuracy of target designation with small joystick controls (Contract AF 30-(602)-573 Final Report). Rome Air Force Base, NY: Air Development Center, Human Factors Office.
- 0909 Regan, J. R. (1953). Speed and accuracy of target designation with small joystick controls (Technical Report NAV-TRADEVCEEN 322-1-2). Port Washington, NY: U.S. Naval Training Device Center.
- 0910 Reiche, D., Kirchner, J. H., & Luring, W. (1971). Evaluation of stress factors by analysis of radio-telecommunication in ATC. Ergonomics, 14(5), 603-609.
- 0911 Reid, L. D., Solowks, E. N., & Billing, A. M. (1981). A systematic study of driver steering behavior. Ergonomics, 24(6), 447-462.
- 0912 Repa, B. S. (1973). The use of a tracking test battery in the quantitative evaluation of neurological function (Report No. NASA-CR-132275). Ann Arbor: Michigan University.
- 0913 Repperger, D. W., Togers, D. B., Frazier, J. W., & VanPatten, R. E. (1982). A study on human tracking performance in complex G field experiment. IEEE Transactions on Systems, Man, and Cybernetics, 12(3), 393-401.
- 0914 Repperger, D. W., Ward, S. L., Hartzell, E. J., Glass, B. C., & Summers, W. C. (1979). An algorithm to ascertain critical regions of human tracking ability. IEEE Transactions on Systems, Man, and Cybernetics, 9(4), 183-196.
- 0915 Ritchie, M. L., & Bamford, H. E., Jr. (1957). The effect upon the output of a complex man-machine system of quickening and damping a derivative feedback display (Technical Report 57-103). Wright-Patterson Air Force Base, OH: Wright Air Development Center.
- 0916 Ritchie, M. L. (1972). Choice of speed in driving through curves as a function of advisory speed and curve signs. Human Factors, 14(6), 533-538.
- 0917 Robinson, G. H., & Bond, J. R. (1975). Visual dynamics when interrupting a control task to search for a peripheral target (Technical Report 75-21). Wisconsin University-Madison, Department of Industrial Engineering.
- 0918 Rockway, M. R. (1957). Effects of variations in control dead-space and gain on tracking performance (Technical Report 57-326). Wright-Patterson Air Force Base, OH: Wright Air Development Center.
- 0919 Rockway, M. R. (1955). The effect of variations in control display during training on transfer to a high ratio (Technical Report 55-366). Wright-Patterson Air Force Base, OH: Wright Air Development Center.
- 0920 Rockway, M. R. (1954). The effect of variations in control display ratio and exponential time delay on tracking performance (Technical Report 54-618). Wright-Patterson Air Force Base, OH: Wright Air Development Center.

- 0921 Rockway, M. R., Eckstrand, G. A., & Morgan, R. L. (1956). The effect of variations in control display ratio during training on transfer to a low ratio (Technical Report 56-10). Wright-Patterson Air Force Base, OH: Wright Air Development Center.
- 0922 Rockway, M. R., & Franks, P. E. (1959). Effects of variations in control backlash and gain on tracking performance (Technical Report 58-553). Wright-Patterson Air Force Base, OH: Wright Air Development Center.
- 0923 Rogers, J. G. (1964). Adaptive aiding: A new method of aiding for discrete manual tracking. Proceedings of the 5th National Symposium on Human Factors in Electronics, San Diego, CA.
- 0924 Rogers, J. G. (1970). Discrete tracking performance with limited velocity resolution. Human Factors, 12(3), 311.
- 0925 Rogers, J. G. (1970). Real-time analog display inputs. Information Display, 27.
- 0926 Rogers, J. G. (1963). The effects of target distance and direction on maximum velocity of the rolling ball control. Human Factors, 5(4).
- 0927 Rohrman, R. A. (1963). Description of aerial target control central (Report No. NADC--ED-L6174BAN/MSQ-51). San Diego, CA: Bureau of Naval Weapons, Engineering Development Laboratory.
- 0928 Rolfe, J. M. (1973). Whither workload? Applied Ergonomics, 4(1), 8-10.
- 0929 Ronco, P. G., (1963). A bibliography and overview of human factors reference works Human Factors, 5(6).
- 0930 Root, C. M., & Harris, D. R. (1972). The effects of brewed beverages on psychomotor performance. Proceedings of the 16th Annual Meeting of the Human Factors Society, 81-85.
- 0931 Roscoe, S. N. (1968). Airborne displays for flight and navigation. Human Factors, 10(4), 321.
- 0932 Roscoe, S. N. Hasler, S. G., & Dougherty, D. J. (1966). Flight by periscope: Making takeoffs and landings; The influence of image magnification, practice, and various conditions of flight. Human Factors, 8(1), 13.
- 0933 Roscoe, S. N., & Williges, R. C. (1972). Motion relationships in aircraft attitude and guidance displays: A flight experiment (Report No. ARL-72-32/ONR-72-2). Illinois University-Savoy, Aviation Research Laboratory.
- 0934 Roscoe, S. N., & Williges, R. C. (1973). Motion relationships in aircraft attitude and guidance displays: A flight experiment. Proceedings of the 17th Annual Meeting of the Human Factors Society, 246-255.
- 0935 Roscoe, S. N., & Williges, R. C. (1975). Motion relationships in aircraft attitude and guidance displays: A flight experiment. Human Factors, 17(4), 374-387.

- 0936 Rose, S., Katz, P. A., Birke, M., & Rossman, E. (1977). Visual following in newborns: Role of figure-ground contrast and configurational detail. Perceptual and Motor Skills, 45(2), 515-522
- 0937 Rosenberg, B. (1964). Bibliography of effects of vibration on: Human performance tracking, and human physiology (Technical Report). Philadelphia, PA: The Franklin Institute.
- 0938 Rosenberg, B. (1965). Bibliography for tracking in a vibrating environment (Technical Report). Philadelphia, PA: The Franklin Institute.
- 0939 Rosenberg, B. A. (1981). Do eye movements have a special importance to mental activity? Perceptual and Motor Skills, 53(2), 671-678.
- 0940 Rosenberg, B. L., & Landis, D. (1965). A factor analytic study of activity patterns over twenty muscles measured during a four-hour tracking task. The 9th Annual Symposium on Human Factors Society, Santa Monica, CA.
- 0941 Rosenquist, H. S. (1972). The effects of rhythm and rhythmic ability on rotary pursuit tracking. Proceedings of the Annual Convention of the American Psychological Association, 7(Pt. 1), 315-316.
- 0942 Rosenthal, M. (1973). Application of human engineering principles and techniques to the design of electronic production equipment. Human Factors, 15(2), 137-148.
- 0943 Ross, D. E., Ochs, A. L., Hill, M. R., & Goldberg, S. C. (1988). Erratic eye tracking in schizophrenic patients as revealed by high-resolution techniques. Biological Psychiatry, 24(6), 675-688.
- 0944 Roth, K. H. (1971). A new tracking system for high acceleration targets. Society for Photoptical Instrumentation Engineers Seminar Proceedings, 23, 53-60.
- 0945 Roth, W. T. (1973). The effects of marijuana on tracking task performance. Psychopharmacologia, 33(3), 259-265.
- 0946 Rothenberg, S., Scottenfeld, S., Selkoe, D., & Gross, K. (1980). Specific oculomotor deficit after acute methadone: II. Smooth pursuit eye movements. Psychopharmacology, 67(3), 229-234.
- 0947 Rothenberg, S. J., & Selkoe, D. (1981). Specific oculomotor deficit after diazepam: II Smooth pursuit eye movements. Psychopharmacology, 74(3), 237-240.
- 0948 Roucoux, A., Culee, C., & Roucoux, M. (1983). Development of fixation and pursuit eye movements in human infants. Behavioral Brain Research, 10(1), 133-139.
- 0949 Rouse, W. B. (1973). A model of the human in a cognitive prediction task. IEEE Transactions on Systems, Man, and Cybernetics, SMC-3(5), 473-477.
- 0950 Ruehmann, H. (1978). Untersuchung ueber den einfluss der mechanischen eigenschaften von bedienelementen auf die steuerleistung des menschen bei stockastischen rollschwingungen. Investigation on the effect of mechanical properties of control elements on human control performance under stochastic roll

vibrations.] (Report No. BMVG-FBWT-78-11 0). Munich, Federal Republic of Germany: Ingenieurbuero fuer Ergonomie.

- 0951 Rule, R. G., & Fenton, R. E. (1972). On the effects of state information on driver-vehicle performance in car following. IEEE Transactions on Systems, Man, and Cybernetics, SMC-2(5), 630-637.
- 0952 Rund, P. A., Birmingham, H. P., Tipton, C. L., & Garvey, W. D. (1957). The utility of quickening techniques in improving tracking performance with a binary display (Report No. 5013). Washington, DC: U.S. Naval Research Laboratory.
- 0953 Russell, J. R., Preston, M. G., & Mechler, E. A. (1948). The basis for the optimum aided tracking time constant (Technical Report). Philadelphia, PA: The Franklin Institute.
- 0954 Russell, W. R., & Alford, W. L. (1959). Flight investigation of a centrally located rigid force control stick used with electronic control systems in a fighter airplane (Report No. TN D-102). Washington, DC: National Aeronautics and Space Administration.
- 0955 Russell, W. R., Sjoberg, S. A., & Alford, W. L. (1956). A flight investigation of the handling characteristics of a fighter airplane controller through a rate type of automatic control system (Report No. NACARM L56F06). Orlando, FL: U.S. Navy.
- 0956 Ryden, T., & Thomas, T. (1972). Design and operational features of the scan-100 collision avoidance system. Navigation, 19(1), 89-96.
- 0957 Sachs, D. A., & Mayhall, B. (1972). The effects of reinforcement contingencies upon pursuit rotor performance by a cerebral-palsied adult. Journal of Nervous and Mental Disease, 155(1), 36-41.
- 0958 Sage, G. H., & Bennett, B. (1973). The effects of induced arousal on learning and performance of a pursuit motor skill. Research Quarterly, 44(2), 140-149.
- 0959 Sakata, H., Shibutani, H., & Kawano, K. (1983). Functional properties of visual tracking neurons in posterior parietal association cortex of the monkey. Journal of Neurophysiology, 49(6), 1364-1380.
- 0960 Sameshima, M., Yamashita, T., & Masuyama, E. (1984). Dynamic characteristics of compensatory tracking behavior in adults with cerebral palsy. Japanese Journal of Psychology, 55(4), 250-253.
- 0961 Samson, P. B. (1972). Head and eye tracking in response to velocity and acceleration input (Technical Report). Tufts Institute for Psychological Research.
- 0962 Saul, E. V., & Jaffe, J. (1955). Effects of clothing on gross motor performance (Technical Report EP-12). Natick, MA: Quartermaster Research and Development Center.
- 0963 Savage, R. E., Williges, B. H., & Williges, R. C. (1982). Empirical prediction models for training-group assignment. Human Factors, 24(4), 417-426.

- 0964 Scanlan, L. A., Roscoe, S. N., & Williges, R. C. (1971). Time compressed displays for target detection. Aviation Research Monographs, 1(3), pp. 41-66.
- 0965 Scarone, S., Gambini, O., Hafele, E., & Bellodi, L. (1987). Neurofunctional assessment of schizophrenia: A preliminary investigation of the presence of eye-tracking (SPEMs) and quality extinction test (QET) abnormalities in a sample of schizophrenic patients. Biological Psychology, 24(3), 253-259.
- 0966 Schalen, L., Henriksson, N. G., & Pyykko, I. (1982). Quantification of tracking eye movements in patients with neurological disorders. Acta Oto-Laryngologica, 93(5-6), 387-395.
- 0967 Schaumann, J. L. (1971). Optical sensor tracking: Present day concepts. Society for Photoptical Instrumentation Engineers Seminar Proceedings, 23, 91-100.
- 0968 Schieber, M. H., & Thach, W. T. (1980). Alpha-gamma dissociation during slow tracking movements of the monkey's wrist: Preliminary evidence from spinal ganglion recording. Brain Research, 202(1), 213-216.
- 0969 Schmid-Burgk, W. (1982). Disturbed smooth pursuit and saccadic eye movements in schizophrenia. Archiv fue Psychiatrie und Nervenkrankheiten, 232(5), 381-389.
- 0970 Schmidt, K. H., Kleinbeck, U., & Brockmann, W. (1984). Motivational control of motor performance by goal setting in a dual-task situation. Psychological Research, 46(1-2), 129-141.
- 0971 Schmidt, R. A. (1982). Motor control and learning. Champaign, IL: Human Kinetics Publishers.
- 0972 Schohan, B., Rawson, E. H., & Soliday, S. M. (1965). Pilot and observer performance in simulated low altitude high speed flight. Human Factors, 7(3), 257.
- 0973 Schori, T. R. (1970). Tracking performance as a function of precision of electrocutaneous feedback information. Human Factors, 12(5), 447.
- 0974 Schori, T. R. (1970). Tracking performance as a function of precision of electrocutaneous feedback information. Human Factors, 12(5), 447-452.
- 0975 Schori, T. R., & Jones, B. W. (1975). Smoking and work load. Journal of Motor Behavior, 7(2), 113-120.
- 0976 Schroeder, D. J., Collins, W. E., & Elam, G. W. (1974). Effects of secobarbital and d-amphetamine on tracking performance during angular acceleration. Ergonomics, 17(5), 613-621.
- 0977 Schroeder, D. J., Gilson, R. D., Guedry, F. E., & Collins, W. E. (1972). Alcohol and disorientation-related responses: VI. Effects of alcohol on eye movements and tracking performance during laboratory angular accelerations about the yaw and pitch axes (Report No. 72-34). Washington, DC: Federal Aviation Administration, Office of Aviation Medicine.

- 0978 Schroeder, D. J., Gilson, R. D., Guedry, F. E.Jr., & Collins, W. E. (1973). Effects of alcohol on nystagmus and tracking performance during laboratory angular accelerations about the Y and Z axes. Aerospace Medicine, 44(5), 477-483.
- 0979 Sclater, N. (1970). To speed complex design, computer interacts with CRT and X-Y plotter. Product Engineering, Reprint.
- 0980 Seacord, C. L. (1964). Flight control. Space and Aeronautics, 42(4), 66.
- 0981 Seacord, C. L. (1963). Flight control for manned space-craft. Space and Aeronautics, 36(3).
- 0982 Searle, L. V. (1948). Psychological studies of tracking behavior: 1. Rate and time characteristics of simple corrective movements (Report No. R-3248). Washington, DC: U.S. Naval Research Laboratory.
- 0983 Searle, L. V. (1951). Psychological studies of tracking behavior: IV. The intermittency hypothesis as a basis for predicting optimum aided tracking time constants (Report No. 3872). Washington, DC: U.S. Naval Research Laboratory.
- 0984 Seckel, E., Hall, I. A. M., McRuer, D. T., & Weir, D. H. (1958). Human pilot dynamic response in flight and simulator (Technical Report 57-520). Wright-Patterson Air Force Base, OH: Wright Air Development Center.
- 0985 Seeley, H. F., & Bliss, J. C. (1966). Compensatory tracking with visual and tactile displays. IEEE Transactions on Human Factors in Electronics, 7(2), 84.
- 0986 Seidenstein, S., & Berbert, A. G., Jr. (1965). Manual control of remote manipulators: Experiments using analog simulation (Technical Report). Dayton, OH: Ritchie Incorporated.
- 0987 Senders, J. W. (1959). Human tracking behavior, (Aero Document U-ED 6141). Minneapolis, MN: Honeywell Regulator Company.
- 0988 Senders, J. W. (1959). Survey of human dynamics data and a sample application (Technical Report 59-712). Wright-Patterson Air Force Base, OH: Wright Air Development Center.
- 0989 Senders, J. W. (1963). The human operator as a monitor and controller of multi-degree of freedom systems. Cambridge, MA: Bolt, Beranek, and Newman.
- 0990 Senders, J. W. (1964). The human operator as a monitor and controller of multi-degree of freedom systems. IEEE Transactions Human Factors in Electronics, 5(1), 2.
- 0991 Senders, J. W. (1953). The influence of surround on tracking performance: Part I. Tracking on combined pursuit and compensatory one-dimensional tasks with and without a structured surround (Technical Report 52-229, Part I). Wright-Patterson Air Force Base, OH: Wright Air Development Center.
- 0992 Senders, J. W. (1955). Tracking with intermittently illuminated displays (Technical Report 56-107). Wright-Patterson Air Force Base, OH: Aero Medical Laboratory.

- 0993 Senders, J. W., & Bradley, J. V. (1956). Effect of backlash on manual control of pitch of a simulated aircraft (Technical Report. 58-107). Wright-Patterson Air Force Base, OH: Wright Air Development Center.
- 0994 Senders, J. W., & Cruzen, M. (1952). Tracking performance on combined compensatory and pursuit tasks (Technical Report 52-39). Wright-Patterson Air Force Base, OH: Wright Air Development Center, Aero Medical Laboratory.
- 0995 Shackel, B. (1954). Some design requirements for optimum human tracking performance (E.M.I. Psychology Report No. 5). Cambridge, England: Medical Research Council, Applied Psychology Research Unit.
- 0996 Shannon, R. H., & Waag, W. L. (1972). Identifying pilot error potential in the F-4 aircraft. Proceedings of the 16th Annual Meeting of the Human Factors Society, 452-455.
- 0997 Shefer, J., & Klensch, R. J. (1973). Harmonic radar helps autos avoid collisions. IEEE Spectrum, 10(5), 38-45.
- 0998 Sheridan, T. B. (1968). Big brother as driver. Proceedings of the 12th Annual Meetings of the Human Factors Society, Chicago, IL.
- 0999 Sheridan, T. B. (1962). Studies of adaptive characteristics of the human controller (Technical Document Report. No. ESD TDR 62-351). L. G. Hanscom Field, Bedford, MA: Electronic Systems Division, U.S. Air Force Systems Command.
- 1000 Sheridan, T. B. (1960). Time variables dynamics of human operator systems (Report R-124). Cambridge, MA: Institute of Technology, Dynamic Analysis and Control Laboratory.
- 1001 Sheridan, T. B., Fabis, F. B., & Roland, R. D. (1966). Preview control behavior and optimal control norms. The 2nd Annual NASA University Conference on Manual Control, NASA SP-128, 293.
- 1002 Sheridan, T. B., & Ferrell, W. R. (1963). Remote manipulative control with transmission delay. IEEE Transactions on Human Factors in Electronics, HFE-4(1).
- 1003 Sheridan, T. B., & Ferrell, W. R. (1981). Man-machine systems: Information, control, and decision models of human performance. Cambridge, MA: Massachusetts Press.
- 1004 Sheridan, T. B., Johnson, W. M., Bell, A. C., & Kreifeldt, J. G. (1964). Control models of creatures which look ahead. Proceedings of the 5th National Symposium on Human Factors in Electronics, San Diego, CA.
- 1005 Sherlock, J. F. (1972). Electronic displays in ATC. Applied Ergonomics, 3(3), 168-169.
- 1006 Shields, R. H. (1967). The depth of flash optical landing system (Report No. 6473). Washington, DC: U.S. Naval Research Laboratory.



- 1007 Shinar, J., Besner, E., & Rotsztein, Y. (1979). Dynamic analysis of beam-rider missile performance (Report No. TAE-376). Technion, Israel: Institute of Technology-Haifa, Department of Aeronautical Engineering.
- 1008 Shirachi, D. K., & Shirley, R. S. (1977). The effect of a visual/motion display mismatch in a single axis compensatory tracking task (Report No. NASA-CR-2921). Mountain View, CA: Computer Sciences Corporation.
- 1009 Shirachi, D. K., Monk, D. L., & Black, J. H. (1978). Head rotational spectral characteristics during two-dimensional smooth pursuit tasks. IEEE Transactions on Systems, Man, and Cybernetics, 8(9), 715-724.
- 1010 Shirley, R. S. (1969). Application of a modified fast fourier transform to calculate human operator describing functions. IEEE Transactions on Man-Machine Systems, MMS-10-(4), 140.
- 1011 Siever, L. J. (1982). Smooth pursuit eye tracking impairment: Relation to other "markers" of schizophrenia and psychologic correlates. Archives of General Psychiatry, 39(9), 1001-1005.
- 1012 Siever, L. J. (1984). Impaired smooth pursuit eye movement: Vulnerability marker for schizotypal personality disorder in a normal volunteer population. American Journal of Psychiatry, 141(12), 1560-1566.
- 1013 Siever, L. J., Insel, T. R., Hamilton, J., & Nurnberger, J. (1987). Eye-tracking attention and amphetamine challenge. Journal of Psychiatric Research, 21(2), 129-135.
- 1014 Simmonds, D. C. V., & Poulton, E. C. (1971). Camera shake under stress: Moving targets viewed briefly in poor light. Ergonomics, 14(6), 695-701.
- 1015 Simon, C. W. (1952). Instrument-control configuration affecting performance in a compensatory pursuit task (Technical Report 6015). Wright-Patterson Air Force Base, OH: Wright Air Development Center.
- 1016 Simon, C. W. (1965). Rapid acquisition of radar targets from moving and static displays. The Journal of the Human Factors Society, 7(3), 185.
- 1017 Simons, R. F., & Katkin, W. (1985). Smooth pursuit eye movements in subjects reporting physical anhedonia and perceptual aberrations. Psychiatry Research, 14(4), 275-289.
- 1018 Sinaiko, H. W. (1972). Human intervention and full automation in control systems. Applied Ergonomics, 3(1), 3-7.
- 1019 Singleton, W. T. (1971). The ergonomics of information presentation. Applied Ergonomics, 2(4), 213-220.
- 1020 Sjoberg, S. A., Russell, W. R., & Alford, W. L. (1983). Flight investigation of a normal acceleration automatic longitudinal control system in a fighter airplane (Memorandum No. 10-26-58L). Washington, DC: National Aeronautics and Space Administration.

- 1021 Sjoberg, S. A., & Russell, W. R. (1957). Flight investigation of a small side-located control stick used with electronic control systems in a fighter airplane (NASA RM L56L28A). Washington, DC: National Aeronautics and Space Administration.
- 1022 Skolnick, A. (1966). Stability and performance of manned control systems. IEEE Human Factors in Electronics, HFE-7(3), 115.
- 1023 Slack, C. W. (1953). Learning in a simple one-dimensional tracking. American Journal of Psychology, 66, 33-44.
- 1024 Smeraldi, E., Gambini, O., Bellodi, L., & Sacchetti, E. (1987). Combined measure of smooth pursuit eye movements and ventricle-brain ratio in schizophrenic disorders. Psychiatry Research, 21(4), 293-301.
- 1025 Smiles, K. A. (1972). Human performance capability in the aircraft acceleration environment of aerial combat (Report No. AMRL-TR-72-60). Wright-Patterson Air Force Base, OH: Aerospace Medical Research Laboratory.
- 1026 Smith, H. J. (1967). Human describing functions measured in flight and on simulators. IEEE Transactions on Human Factors in Electronics, 8(4), 264.
- 1027 Smith, K. U. (1962). Delayed sensory feedback and behavior. Philadelphia: Saunders.
- 1028 Smith, K. U. (1972). Developmental cybernetics: The maturation of the infant and child as self-controlled systems. Paper presented at the Cybernetic Psychology Lecture Series III, University of South Dakota.
- 1029 Smith, K. U., Kaplan, R., & Kao, H. S. (1970). Experimental systems analysis of simulated vehicle steering and safety training. Journal of Applied Psychology, 54(4), 364-476.
- 1030 Smith, K. U., & Putz, V. R. (1970). Feedback factors in steering and tracking behavior. Journal of Applied Psychology, 54(2), 176-183.
- 1031 Smith, M. J. (1972). The use of bivariate distributions in achieving anthropometric compatibility in equipment design Part 2: The development. Proceedings of the 16th Annual Meeting of the Human Factors Society, 19-23.
- 1032 Smith, M. V., Benignus, V. A., Muller, K. E., Kafer, E. R., & Pieper, K. S. (1987). Lack of effects of high level carboxyhemoglobin on compensatory tracking and EEG (Electroencephalogram) (Protocol 3). Research Triangle Park, NC: Environmental Protection Agency.
- 1033 Smith, R. H. (1963). On the limits of manual control. IEEE Transactions on Human Factors in Electronics, HFE-4(1).
- 1034 Smith, R. L., Garfinkle, D. R., Groth, H., & Lyman, J. (1966). Effects of display magnification and field of view on compensatory tracking performance. Human Factors, 8(5), 427.

- 1035 Smith, R. L., Garfinkle, D. R., & Lyman, J. (1966). Independent effects of error magnification and field of view on compensatory tracking performance. Human Factors, 8(6), 563.
- 1036 Smith, R. L. (1971). The human operator in optical tracking systems. Society for Photoptical Instrumentation Engineers Seminar Proceedings, 23, 103-109.
- 1037 Smith, R. L., Pence, G. G., Queen, J. E., & Wulfeck, J. W. (1974). Effect of a predictor instrument on learning to land a simulated jet trainer (Report No. AFOSR-TR-74-1731). Inglewood, CA: Dunlap and Associates, Western Division.
- 1038 Snyder, D. L. (1987). A nonlinear study of compensatory manual control systems. IEEE Transactions on Human Factors in Electronics, HFE-5(1), 25.
- 1039 Soede, M., Coeterier, J. F., & Stassen, H. G. (1971). Time analyses of the tasks of approach controllers in ATC. Ergonomics, 14(5), 591-601.
- 1040 Soliday, S. M. (1970). Navigation in terrain following flight. Human Factors, 12(5), 425.
- 1041 Soliday, S. M., & Mligan, J. R. (1968). Terrain-following with a head-up display. Human Factors No. 2, HFE-5(1), 117.
- 1042 Soliday, S. M., & Schohan, B. (1965). Task loading of pilots in simulated low altitude high speed flight. Human Factors, 7(1), 45.
- 1043 Solomon, C. M., Holzman, P. S., Levin, S., & Gale, H. J. (1987). The association between eye-tracking dysfunctions and thought disorder in psychosis. Archives of General Psychiatry, 44(1), 31-35.
- 1044 Soma, T. (1970). Graphic input using control ball and high-precision CRT. The 11th Annual Programming Symposium Information Processing Society of Japan, Tokyo.
- 1045 Souder, M. A. (1972). Visual and proprioceptive determinants of space perception and movement. Journal of Motor Behavior, 4(1), 13-22.
- 1046 Spangler, R. S. (1961). Evaluation of track stick versus track ball (Report No. NR TF-2460). Washington, DC: U.S. Army Air Defense Board.
- 1047 Speight, L. R., & Bickerdike, J. S. (1968). Control law optimization in simulated visual tracking of aircraft. Ergonomics, 11(3).
- 1048 Spencer, R. A. (1973). Man/machine interface considerations for a teleoperator spacecraft control station. Proceedings of the 17th Annual Meeting of the Human Factors Society, 326-333.
- 1049 Sperandio, J. C. (1971). Variation of operator's strategies and regulating effects on workload. Ergonomics, 14(5), 571-577.
- 1050 Speyer, J. L., Samn, S., & Albanese, R. (1980). A stochastic differential game theory approach to human operators in adversary tracking encounters. IEEE Transactions on Systems, Man, and Cybernetics, 10(11), 755-762.

- 1051 Spohn, H. E., Coyne, L., & Spray, J. (1988). The effect of neuroleptics and tardive dyskinesia on smooth-pursuit eye movement in chronic schizophrenics. Archives of General Psychiatry, 45(9), 833-840.
- 1052 Stager, P., & Laabs, G. J. (1977). The effect of divided attention on probe reaction time in multiple-task performance. Canadian Journal of Psychology, 31(4), 174-183.
- 1053 Staires, M. K. (1979). A study of the relationship of lateral dominance to certain motor movements and academic achievement. Dissertation Abstracts International, 39(11-A), 6514.
- 1054 Stambler, I. (1965). V/STOLS: The quest for stability. Space and Aeronautics Magazine, 69.
- 1055 Stammers, R. B. (1980). Part and whole practice for a tracking task: Effects of task variables and amount of practice. Perceptual and Motor Skills, 50(1), 203-210.
- 1056 Stamper, D. A., Levine, R. R., & Best, P. R. (1987). Effect of practice schedule on two-hand pursuit tracking performance. Perceptual and Motor Skills, 65(2), 483-492.
- 1057 Stamper, D. A., Lund, D. J., Esgandarian, G. E., Levine, R. R., & Stuck, B. E. (1982). Optical characterization, visual function, and pursuit tracking performance using a 532 nm reflecting holographic filter (Report No. LAIR-82-38TN). Presidio of San Francisco, CA: Letterman Army Institute of Research.
- 1058 Stamper, D. A., Lund, D. J., Levine, R. R., Molchany, J. W., & Best, P. R. (1986). Flash/Crazing effects on simulator pursuit tracking performance (Report No. LAIR-214). Presidio of San Francisco, CA: Letterman Army Institute of Research.
- 1059 Stamper, D. A., O'Mara, P. A., Beatrice, E., & Lund, D. J. (1980). Tracking performance with a viscous-damped mount under simulated conditions of varied ambient light levels and target velocities (Report No. LAIR-82). Presidio of San Francisco, CA: Letterman Army Institute of Research.
- 1060 Stark, L. (1983). Abnormal patterns of normal eye movements in schizophrenia. Schizophrenia Bulletin, 9(1), 55-72.
- 1061 Stave, A. M. (1969). VTOL Instrument operation study: Problems of pilots and ATC's for commercial flights. International Symposium on Man-Machine Systems. (IEEE Conference Record No. 69C58-MMS.)
- 1062 Stedman, M. E. (1984). Compensatory tracking: Unimanual, bimanual, and social control systems. Dissertation Abstracts International, 45(5-B), 1609.
- 1063 Stein, A., & Lewis, D. H. (1967). Motor unit myoelectric control. IEEE Transactions on Human Factors in Electronics, HFE-8(3), 253.
- 1064 Steinbach, M. J. (1976). Pursuing the perceptual rather than the retinal stimulus. Vision Research, 16(12), 1371-1376.

- 1065 Stelmach, G. E. (1970). Learning and response consistency with augmented feedback. Ergonomics, 13(4), 421.
- 1066 Stern, L. D., & Emelity, D. (1978). Evidence for frames of reference based on pursuit eye movements. Perception and Psychophysics, 24(6), 521-528.
- 1067 Sterner, R. T., & Carpp, L. (1977). Psychomotor rehearsal: Enhancement of rotary-pursuit tracking using a massed-training procedure. Perceptual and Motor Skills, 44(1), 243-248.
- 1068 Stevenson, J. (1984). Frequency encoded auditory display of the critical tracking task (Report No. NASA 1.15:85869; A-9576; NASA-TM-85869). Moffett Field, CA: National Aeronautics and Space Administration, Ames Research Center.
- 1069 Stoddard, R. D., & Olson, W. P. (1973). Photopen data entry device. NEREM 73 Record Part 4: Displays. IEEE Catalog No. 73 CHO 842-5 NEREM, 131-138.
- 1070 Stone, L. W., Krueger, G. P., & Holt, W. R. (1982). Pursuit rotor tracking performance in conjunction with extended flight operations in a helicopter simulator (Report No. ARL-82-6). Fort Rucker, AL: U.S. Army Aeromedical Research Laboratory.
- 1071 Storm, W. F., Henry, P. H., Sanford, J. F., III, & Noah, J. C. (1973). Effect of low humidity on human performance (Report No. SAM-TR-73-3). Brooks Air Force Base, TX: School of Aerospace Medicine.
- 1072 Strasser, H., & Muller-Limmroth, W. (1973). Central nervous stimulant-induced physiological and performance changes in aged adults during the sustained operation of psychomotor tracking tasks. Arzneimittel-Forschung, 23(3), 406-415.
- 1073 Streimer, I. (1972). Human performance characteristics in a complex manual task underwater. Human Factors, (1491), 95-99.
- 1074 Strickland, Z. (1971). Lunar rover ready for moon drive. Aviation Week and Space Technology, 42.
- 1075 Suggs, C. W. (1967). Applications of servo theory to a manual repetitive operation. Human Factors, 9(5), 433.
- 1076 Sugie, N. (1971). A model of predictive control in visual tracking. IEEE Transactions on Systems, Man, and Cybernetics, SMC-1(1), 2.
- 1077 Sumi, S. (1983). Temporal aspects of the loss of position constancy in visual smooth pursuit. Japanese Psychological Research, 25(3), 156-163.
- 1078 Sun, J., & Irwin, D. E. (1987). Retinal masking during pursuit eye movements: Implications for spatiotopic visual persistence. Journal of Experimental Psychology: Human Perception and Performance, 13(1), 140-145.
- 1079 Sussman, E. D., & Abernethy, C. N., III (1973). Laboratory evaluation of alcohol safety interlock systems, Volume I (Report No. DOT-TSC-NHTSA-73-3; DOT-HS-800 925). Cambridge, MA: Transportation Systems Center.

- 1080 Sussman, H. M. (1979). Evidence for left hemisphere superiority in processing movement-related tonal signals. Journal of Speech and Hearing Research, 22(2), 224-235.
- 1081 Sussman, H. M., & MacNeilage, P. F. (1975). Hemispheric specialization for speech production and perception in stutterers. Neuropsychologia, 13(1), 19-26.
- 1082 Sussman, H. M., MacNeilage, P. F., & Lumbley, J. L. (1975). Pursuit auditory tracking of dichotically presented tonal amplitudes. Journal of Speech and Hearing Research, 18(1), 74-81.
- 1083 Sussman, H. M., & Westbury, J. R. (1978). A laterality effect in isometric and isotonic labial tracking. Journal of Speech and Hearing Research, 21(3), 563-579.
- 1084 Suzuki, D. A., & Keller, E. L. (1988). The role of the posterior vermis of monkey cerebellum in smooth-pursuit eye movement control: II. Target velocity-related Purkinje cell activity. Journal of Neurophysiology, 59(1), 19-40.
- 1085 Swartzendruber, L., Ince, F., Williges, R. C., & Roscoe, S. N. (1971). Two linear rate-field displays. Human Factors, 13(6), 569-575.
- 1086 Sweeney, J. S., Bailey, A. W., & Dowd, J. F. (1957). Comparative evaluation of three approaches to helicopter instrumentation for hovering flight (Report No. 4954). Washington, DC: U.S. Naval Research Laboratory.
- 1087 Sweeney, J. S., Birmingham, H. P., & Garvey, W. D. (1958). A study of the effects of filtering on the performance of a manual compensatory tracking task (Report No. 5205). Washington, DC: U.S. Naval Research Laboratory.
- 1088 Swierenga, S. J., & Struckman-Johnson, D. L. (1984). Alternative cursor control devices: An empirical comparison using a tracking task (Technical Report). University of South Dakota: Human Factors Laboratory.
- 1089 Takahashi, M. (1984). Study of pursuit eye movement by random to-and-fro target movement. Acta Oto-Laryngologica, 406, 224-226.
- 1090 Takahashi, M., Igarashi, M., & Reschke, M. F. (1978). Directional conflict between vestibular and visual inputs in the squirrel monkey. Acta Oto-Laryngologica, 85(3-4), 2532-261.
- 1091 Tanie, K., Tachi, S., Komoriya, K., Iguchi, H., & Takabe, M. (1982). Characteristics of a compensatory manual control system with electrocutaneous feedback. Proceedings of the 18th Annual Conference on Manual Control, AD-A131 256, 366-385.
- 1092 Tauber, E. S., & Kaufman, L. (1977). Fixation and the stereokinetic phenomenon. Perception and Psychophysics, 22(3), 241-244.
- 1093 Taylor, F. V., & Birmingham, H. P. (1948). Psychological studies of tracking behavior: II. A study of the acceleration pattern of quick manual corrective responses (Report No. R-3249). Washington, DC: U.S. Naval Research Laboratory.

- 1094 Taylor, L. W., Jr. (1966). Discussion of spectral human response analysis. The 2nd Annual NASA University Conference on Manual Control, NASA SP-128, 403.
- 1095 Teichgraber, W. M. (1972). The effect of signal quantization on compensatory tracking performance. Unpublished master's thesis, Naval Postgraduate School, Monterey, CA.
- 1096 Teichner, W. H., & Krebs, M. J. (1972). Estimating the detectability of target luminances. Human Factors, 14(6), 511-519.
- 1097 Tejmar, J. (1972). Direction guidance of road vehicles. Are better controls in sight? Applied Ergonomics, 3(3), 136-141.
- 1098 Thackray, R. I., Touchstone, R. M., & Jones, K. N. (1972). Effects of simulated sonic booms on tracking performance and autonomic response. Aerospace Medicine, 43(1), 13-21.
- 1099 Thomas, J. R., & French, K. E. (1987). References for motor tasks--gender differences across age in motor performance: A meta-analysis. Perceptual and Motor Skills, 64(2), 503-506.
- 1100 Thomas, R. E. (1962). Development of new techniques for analysis of human controller dynamics, (MRL-TDR-62-65). Wright-Patterson Air Force Base, OH: Wright Air Development Center.
- 1101 Thomas, R. E., & Tou, J. T. (1966). Human decision-making in manual control systems. The 2nd Annual NASA University Conference on Manual Control, NASA SP-128, 325.
- 1102 Thorsheim, H. I., Houston, L., & Badger, C. (1974). Visual and kinesthetic components of pursuit-tracking performance. Journal of Motor Behavior, 6(3), 199-203.
- 1103 Thorton, G. B. (1953). A comparison of an experimental rolling ball control and a conventional joystick in speed of tracking on a simulated radar display (Report No. 107-1). Canada: Canadian Defense Research Medical Laboratory.
- 1104 Tickner, A. H., & Poulton, E. C. (1972). Acquiring a target with an unlagged acceleration control system and with 3 lagged rate control systems. Ergonomics, 15(1), 49-56.
- 1105 Tipton, C. L., & Birmingham, H. P. (1959). The influence of control gain in a first-order man-machine control system. Human Factors, 1 69-71.
- 1106 Todosiev, E. P. Human performance in a cross-coupled tracking system (Technical Report). Redondo Beach, CA: TRW Systems.
- 1107 Todosiev, E. P. (1967). Human performance in a cross-couples tracking system. IEEE Transactions on Human Factors in Electronics, 8(3), 210.
- 1108 Todosiev, E. P., Rose, R. E., & Sumners, L. G. (1967). Human performance in single and two-axis tracking systems. IEEE Transactions on Human Factors in Electronics, 8(2).

- 1109 Tomer, R., & Mintz, M. (1980). Hemisphere laterality and smooth pursuit in normal individuals. Perceptual and Motor Skills, 51(1), 31-35.
- 1110 Tomer, R., Mintz, M., Levy, A., & Myslobodsky, M. (1981). Smooth pursuit pattern in schizophrenic patients during cognitive task. Biological Psychiatry, 16(2), 131-144.
- 1111 Tomlinson, R. D., & Robinson, D. A. (1984). Signals in vestibular nucleus mediating vertical eye movements in the monkey. Journal of Neurophysiology, 51(6), 1121-1136.
- 1112 Tomlinson, R. W. (1972). Control impedance and precision of feedback as parameters in sensori-motor learning. Ergonomics, 15(1), 33-47.
- 1113 Treisman, A. M., & Geffen, G. (1967). Selective attention: Perception or response? Quarterly Journal of Experimental Psychology, 19, 1-17.
- 1114 Trier, A. O. (1986). A system for quantitative assessment of dyscoordination and tremor. Acta Neurologica Scandinavica, 73(3), 291-294.
- 1115 Truijens, C. L., Trumbo, D. A., & Wagenaar, W. A. (1976). Amphetamine and barbiturate effects on two tasks performed singly and in combination. Acta Psychologica, 40(3), 233-244.
- 1116 Trumbo, D. A., & Noble, M. E. (1972). Response uncertainty in dual-task performance. Organizational Behavior and Human Performance, 7(2), 203-215.
- 1117 Turner, P. E., Kohl, R. M., & Morrie, L. W. (1982). Individual differences in skilled performance following imagery of bilateral skill. Perceptual and Motor Skills, 55(3, Pt 1), 771-780.
- 1118 Turvey, M. T. (1977). Preliminaries to a theory of action with reference to vision. In R. Shaw & J. Bransford (Eds.), Perceiving, acting, and knowing. Hillsdale, NJ: Lawrence Erlbaum.
- 1119 Tychsen, L., & Lisberger, S. G. (1986). Visual motion processing for the initiation of smooth-pursuit eye movements in humans. Journal of Neurophysiology, 56(4), 953-968.
- 1120 Udolph, R., & Gilbert, I. (1973). Behind the front panel. IEEE Spectrum, 10(5), 28-31.
- 1121 U.S. Air Force (1980). Handbook of instruction for aerospace personnel subsystems design. HAPSD (AFSCM 80-3). Wright-Patterson Air Force Base, OH: Wright Air Development Center.
- 1122 U.S. Navy Department of the Navy, (1964). Aviation medical acceleration laboratory (Report No. NADC-ML-6411). Washington, DC: U.S. Naval Air Development Center.
- 1123 Utsuki, N., & Nagasawa, Y. (1983). Effects of non-speech signal preceding voice warnings on response times and errors. Reports of Aeromedical Laboratory, 24(2), 69-78.



- 1124 Vallerie, L. L. (1966). Displays for seeing without looking. Human Factors, 8(6), 507.
- 1125 Van Assen, A., & Eijkman, E. G. (1970). Reaction time and performance in learning a two dimensional compensatory tracking task. Ergonomics, 13(6), 707.
- 1126 Van den Berg, A. V., & Collewyn, H. (1986). Human smooth pursuit: Effects of stimulus extent and of spatial and temporal constraints of the pursuit trajectory. Vision Research, 26(8), 1209-1222.
- 1127 Van der Steen, J., Tamminga, E. P., & Collewyn, H. (1983). A comparison of oculomotor pursuit of a target in circular real, beta or sigma motion. Vision Research, 23(12), 1655-1661.
- 1128 Van der Vaart, J. C., & Hosman, R. J. A. W. (1987). Compensatory tracking in disturbance tasks and target following tasks. The influence of cockpit motion on performance and control behavior (Report No. LR-511). Delft, Netherlands: Technische Hogeschool, Department of Aerospace Engineering.
- 1129 Van Schaik, P. N. (1965). Modular astronaut pack for trips from gemini. Space and Aeronautics, 86.
- 1130 Vandenberg, J. D. (1967). Solution relevance in a multi-dimensional problem domain (Technical Report). Plainfield, NJ: Lockheed Electronics Company.
- 1131 VanderKolk, R. J., & Roscoe, S. N. (1973). Simulator tests of pilotage error in area navigation with vertical guidance: Effects of descent angle and display scale factor. Proceedings of the 17th Annual Meeting of the Human Factors Society, 229-239.
- 1132 Vangool, M. F. C. (1987). The influence of simulator motion wash-out filters on the performance of pilots when stabilizing aircraft attitude in turbulence (Report No. NLR-TR-78022-U). Amsterdam, Netherlands: National Aerospace Laboratory.
- 1133 Vangool, M. F. C. (1978). Influence of motion wash-out filters on pilot tracking performance (Report No. NLR-MP-78005-U). Amsterdam, Netherlands: National Aerospace Laboratory.
- 1134 Vartabedian, A. G. (1970). Human factors evaluation of several cursor forms for use in alphanumeric CRT displays. IEEE Transactions on Man-Machine Systems, MMS-11(2), 132.
- 1135 Vaughan, W. S., Jr., Glass, R. A., & Williams, J. (1978). Peripheral detection and identification of self-luminous display variations in 'Ocean' and 'Harbor' viewing environments (Technical Report). Annapolis, MD: Oceanautics Incorporated.
- 1136 Vaughan, W. S., Jr., & Mavor, A. S. (1972). Diver performance in controlling a wet submersible during four-hour exposures to cold water. Human Factors, 14(2), 173-180.

- 1137 Verdi, A. P. (1964). Human information processing during a compensatory tracking task (Engineering Report No. NA64H-1129). Columbus, OH: North American Aviation Incorporated.
- 1138 Vinje, E. W., & Pitkin, E. T. (1972). Human operator dynamics for aural compensatory tracking. IEEE Transactions on Systems, Man, and Cybernetics, SMC-2(4), 504-512.
- 1139 Viviani, P., Campadelli, P., & Mounoud, P. (1987). Visuo-manual pursuit tracking of human two-dimensional movements. Journal of Experimental Psychology: Human Perception and Performance, 13(1), 62-78.
- 1140 Vuchinich, R. E., & Sobell, M. B. (1978). Empirical separation of physiologic and expected effects of alcohol on complex perceptual motor performance. Psychopharmacology, 60(1), 81-85.
- 1141 Wagenaar, W. A. (1972). The accuracy of maneuvering with a decca-navigation under difficult circumstances. Ergonomics, 15(5), 505-516.
- 1142 Walker, N. K. (1966). Comparative value of trajectory analysis and impact data for assessing the accuracy of human operator guided missiles (Report No. NOTS PO 4070Y 7008-67). Bethesda, MD: Norman K. Walker Association. Confidential.
- 1143 Walker, N. K. (1965). Preliminary tests of a control stick suitable for applying "Flick" tracking to the SS-11 missile system (Report No. 22). Bethesda, MD: Norman K. Walker Association.
- 1144 Walker, N. K. (1964). The zero input tracking analyzer, (Technical Report). Bethesda, MD: Norman K. Walker Association.
- 1145 Walker, N. K., & Burkhardt, J. F. (1966). Combat effectiveness of various human operator controlled systems (Report No. NOTS P.O. 60530/4030Y 3664-66). Bethesda, MD: Norman K. Walker Association. Confidential.
- 1146 Walker, N. K., & Burkhardt, J. F. (1965). Development of tracking tasks as indicators of stress (Technical Report). Aberdeen Proving Ground, MD: U.S. Army Chemical Research Development Center.
- 1147 Walker, N. K., DeSocio, E. Mowbray, H., & Durr, L. (1963). Effects of a particular stress of one man's performance of various tracking tasks (Report No 2). Bethesda, MD: Norman K. Walker Association.
- 1148 Walker, N. K., & Fricker, C. J. (1964). The use of tracking tasks As indicators of stress (Report No. 4). Bethesda, MD: Norman K. Walker Association.
- 1149 Walker, N. K., & Shaffer, D. A. (1965). Accuracy of SS-II gunners at Ft. Ord on the DX-43 simulator (Contract No. DA-49-092-ARO-62). Bethesda, MD: Norman K. Walker Association.
- 1150 Walker, N. K., & Shaffer, D. A. (1964). A preliminary investigation into the accuracy of SS-II gunners at CDCEC Fort Ord, (Report No. 21). Bethesda, MD: Norman K. Walker Association.

- 1151 Walker, N. K., Shectman, F., & DeSocio, E. (1964). Further work on the use of tracking tasks as indicators of stress (Report No. 10). Bethesda, MD: Norman K. Walker Association.
- 1152 Walker, N. K., & Silverman S. (1965). An investigation into the effect of auditory shadowing on the accuracy of "Flick" tracking (Contract DA-49-092 ARO-36). Bethesda, MD: Norman.K. Walker Association. Confidential.
- 1153 Walker, N. K., Silverman, S. M., Elder W. L., & Shaffer, D. A. (1965). An investigation into methods of recording Z.I.T.A. and auditory shadowing stress results for subsequent automatic data processing (Contract No. AMC (A) 18-035-65-649). Bethesda, MD: Norman K. Walker Association.
- 1154 Walker, N. K., Silverman, S. M., Fort, P. W., & Elder, W. L. Effect of psychological stress on the performance of four SS-11 gunners on DX-43 simulator (Contract No. DA-04-200-AMC-953(x)). Bethesda, MD: Norman K. Walker Association.
- 1155 Wallace, B., & Fisher, L. E. (1984). The roles of target and eye motion in the production of the visual shift in prism adaptation. Journal of General Psychology, 110(2), 251-262.
- 1156 Wallach, H., Becklen, R., & Nitzberg, D. (1985). The perception of motion during colinear eye movements. Perception and Psychophysics, 38(1), 18-22.
- 1157 Wallach, H., Schulman, P., & O'Leary, A. (1981). The effect of prolonged practice of pursuit eye movement. Perception and Psychophysics, 30(6), 533-539.
- 1158 Wallach, H. C. (1961). Performance of a pursuit tracking task with different delay times inserted between the control mechanism and the display cursor (Technical Memorandum 12-61). Aberdeen Proving Ground, MD: U.S. Army Human Engineering Laboratory.
- 1159 Wallach, H. C., & Klein, H. L. (1962). An investigation comparing the relative effects of two modes of gun target operation on tracking performance: Study I (Technical Memorandum 4-62). Aberdeen Proving Ground, MD: U.S. Army Human Engineering Laboratory.
- 1160 Ward, F. E. (1975). The role of pursuit eye movements in visual localization. Dissertation Abstracts International, 36(4-B), 1955.
- 1161 Ward, R., & Morgan, M. J. (1978). Perceptual effect of pursuit eye movements in the absence of a target. Nature, 274(5667), 158-159.
- 1162 Wardrip, S. C. (1961). The naval data handling system capabilities in position and rate-aided target tracking (Report No. 5672). Washington, DC: U.S. Naval Research Laboratory.
- 1163 Ware, J. R. (1972). An input adaptive, pursuit tracking model of the human operator. Dissertation Abstracts International, 32(7-B), 4270.
- 1164 Wargo, M. J. (1967). Human operator response speed, frequency, and flexibility a review and analysis. Human Factors, 9(3), 221.

- 1165 Wargo, M. J. (1971). Time-estimation skill assessment: A demonstration of adaptive assessment techniques. Human Factors, 13(2), 163.
- 1166 Wargo, M. J., Kelly, C. R., Mitchell, M. B., & Prosin, D. J. (1967). Human operator response speed, frequency, and flexibility: A review, analysis and device demonstration (NASA CR-874). Inglewood, CA: Dunlap and Associates.
- 1167 Wargo, M. J., Kelley, C. R., Prosin, D. J., & Mitchell, M. B. (1967). Muscle action potential and hand switch disjunctive reaction times to visual, auditory and combined visual-auditory displays. IEEE Transactions on Human Factors in Electronics, 8(3), 223.
- 1168 Waring, W., & Antonelli, D. J. (1967). Circuit for a 10 of freedom myoelectric control. Medical Research Engineering Fourth Quarter, 6(4), 35.
- 1169 Warner, H. D., & Heimstra, N. W. (1972). Effects of noise intensity on visual target-detection performance. Human Factors, 14(2), 181-185.
- 1170 Warren, M. W. (1977). The effects of recall-concurrent visual-motor distraction on picture and word recall. Memory and Cognition, 5(3), 362-370.
- 1171 Warren, R. D. (1972). A hybrid computer technique for measuring human describing functions and remnant in closed-loop tracking tasks. Unpublished master's thesis, Naval Postgraduate School, Monterey, CA.
- 1172 Warrick, M. J., Ellson, D. G., & Hill, H. (1948). The interaction of responses to step function stimuli: I. Opposed steps of constant amplitude (MCREXD-694-2P). Wright-Patterson Air Force Base, OH: Wright Air Development Center, Aero Medical Laboratory.
- 1173 Wasaff, C. R. (1966). A human adaptive control scheme. Proceedings of the 7th National Symposium on Human Factors in Electronics, New York, NY.
- 1174 Wasserman, W. L. (1964). Human amplifiers. International Science and Technology Magazine.
- 1175 Watson, B. L. (1972). The effect of secondary tasks on pilot describing functions in a compensatory tracking task (Report No. UTIAS-178). Ontario, Canada: Toronto University, Institute for Aerospace Studies.
- 1176 Way, T. C. (1970). Studies in manual target designation: Isometric controls (Code Identification No. 81205, No. D162-10258-1). Seattle, WA: The Boeing Company.
- 1177 Webber, C. E., & Adams, J. A. (1960). Issues in the use of an analog-digital data system for the measurement of tracking behavior (Technical Report). University of Illinois-Urbana, Aviation Psychology Laboratory, Department of Psychology.
- 1178 Weener, E. F. (1974). The effect of simulator dynamics on pilot response (Report No. NASA-CR-132459). Ann Arbor: Michigan University, Department of Aerospace Engineering.

- 1179 Wei, K. C. (1981). A human operator gunner model for tracer-directed antiaircraft artillery fire (Report No. AFAMRL-TR-80-142). Dayton, OH: Systems Research Laboratories.
- 1180 Weir, D. H., & Phatak, A. V. (1966). Model of human operator response to step transitions in controlled element dynamics. Proceedings of the 7th National Symposium on Human Factors in Electronics, New York, NY.
- 1181 Weiss, B. (1953). Building "Feel" into controls: The effect on motor performance of different kinds and amounts of feedback (Technical Report 241-6-11). Orlando, FL: U.S. Navy, Office of Naval Research, Special Devices Center.
- 1182 Weiss, B. (1955). Building "Feel" into controls: II Pressure feedback, short movements, and the influence of mixed versus constant series of displacements (Technical Report 241-6-25). Orlando, FL: U.S. Navy, Office of Naval Research, Special Devices Center.
- 1183 Weiss, B. (1955). Movement error pressure variation, and the range effect. Journal of Experimental Psychology, 50(3), 191-196.
- 1184 Weiss, B., & Green, R. F. (1953). The effects of inertia on the accuracy of knob settings (Technical Report 241-6-9). Orlando, FL: U.S. Navy, Office of Naval Research, Special Devices Center.
- 1185 Weisz, A. Z., Allen, R. W., & Goddard, C. J. (1965). An evaluation of three types of hand controllers under random vertical vibration (Technical Report). Culver City, CA: Hughes Aircraft Company, Aerospace Group.
- 1186 Welford, A. T. (1976). Skilled performance: Perceptual and motor skills. Glenview, IL: Scott Foresman.
- 1187 Weltman, G., Nachson, A., & Groth, H. (1967). Skill acquisition in multi-dimensional manipulator control. Human Factors, 9(2), 133.
- 1188 Wempe, T. E., & Baty, D. L. (1966). Usefulness of transinformation as a measure of human tracking performance. The 2nd Annual NASA University Conference on Manual Control, NASA SP-128, 111.
- 1189 Wempe, T. E. (1976). Twelfth annual conference on manual control (Report No. NASA-TM-X-73170; A-6762). Moffett Field, CA: National Aeronautics and Space Administration, Ames Research Center.
- 1190 Wertheim, A. H. (1981). Occipital alpha activity as a measure of retinal involvement in oculomotor control. Psychophysiology, 18(4), 432-439.
- 1191 Westheimer, G., & McKee, S. P. (1973). Failure of Donders' Law during smooth pursuit eye movements. Vision Research, 13(11), 2145-2153.
- 1192 Whitaker, L. A., & Findle, M. S. (1977). Nitrogen narcosis measured by dual-task performance. Journal of Applied Psychology, 62(6), 735-746.
- 1193 White, C. W. (1976). Visual masking during pursuit eye movements. Journal of Experimental Psychology: Human Perception and Performance, 2(4), 469-478.

- 1194 Whitehouse, G. D., Theriot, L., & McPhate, A. J. (1972). A research and development program to develop an improved model for aerial gunnery effectiveness. Volume II. Simulation of tactical aerial gunnery (STAG) program (Report No. AFATL-TR-72-225-Vol-2). Louisiana State University-Baton Rouge, College of Engineering.
- 1195 Whitehurst, M., & Del Ray, P. (1981). Effects of contextual interference, task difficulty, and levels of processing on pursuit tracking. Perceptual and Motor Skills, 57(2), 619-628.
- 1196 Whitfield, D. (1967). Human skill as a determinate of allocation of function. Ergonomics, 10(2), 154.
- 1197 Whitney, D. E. (1969). Resolved motion rate control of manipulators and human prostheses. IEEE Transactions on Man-Machine Systems, MMS-10(2), 47.
- 1198 Whitney, D. E. (1972). Design and control of remote manipulators (NASA-CR-123795). Cambridge: Massachusetts Institute of Technology.
- 1199 Whitney, D. E. (1973). Study of design and control of remote manipulators. Part 1 Summary and conclusion; (NASA-CR-124191). Cambridge: Massachusetts Institute of Technology, Engineering Projects Laboratory.
- 1200 Whitten, J. B., Reeder, J. P., & Crim, A. D. (1955). Helicopter instrument flight and precision maneuvers as affected by changes in damping in roll, pitch, and yaw (Technical Note 3537). Washington, DC: National Advisory Committee, Aeronaut.
- 1201 Wickens, C. D., & Derrick, W. (1981). The processing demands of higher order manual control: Application of additive factors methodology. (Report No. EPL-81-1/ONR-81-1). Illinois University at Urbana-Champaign, Department of Psychology.
- 1202 Wickens, C. D., & Kessel, C. (1979). The effects of participatory mode and task workload on the detection of dynamic system failures. IEEE Transactions on Systems, Man, and Cybernetics, 9(1), 24-34.
- 1203 Wickens, C. D., Kramer, A., Vanasse, L., & Donchin, E. (1983). Performance of concurrent tasks: A psychophysiological analysis of the reciprocity of information-processing resources. Science, 221(4615), 1080-1082.
- 1204 Wickens, C. D., & Pierce, B. (1977). Attentional resource allocation in a variable difficulty dual task paradigm (Report No. EPL-78-1/AFOSR-78-1; AFOSR-78-1295). Illinois University at Urbana-Champaign, Engineering Psychology Laboratory.
- 1205 Wickens, C. D. & Tsang, P. S. (1979). Attention allocation in dynamic environments (Report No. EPL-79-3/AFOSR-79-3; AFOSR-TR-79-0765). Illinois University at Urbana-Champaign, Engineering Psychology Laboratory.
- 1206 Wickens, D. D., & Coterman, T. E. (1958). The effect of display interruption on transfer of training between tasks of different control sensitivities (Technical Report 57-548). Wright-Patterson Air Force Base, OH: Wright Air Development Center.

- 1207 Wiener, E. L. (1975). On simultaneous monitoring and tracking. Journal of Applied Psychology, 60(1), 100-105.
- 1208 Wierwille, W. W. (1965). A theory for optimal deterministic characterization of time-varying human operator dynamics. IEEE Transactions on Human Factors in Electronics, 6(1), 53.
- 1209 Wierwille, W. W. (1964). Improvement of the human operator's tracking performance by means of optimum filtering and prediction. IEEE Transactions on Human Factors in Electronics, 5(1), 20.
- 1210 Wierwille, W. W., & Gagne, G. A. (1965). A theory for the optimal deterministic characterization of the time-varying dynamics of the human operator (NASA CR-170). Washington, DC: National Aeronautics and Space Administration.
- 1211 Wierwille, W. W., & Gagne, G. A. (1966). Nonlinear and time-varying dynamical models of human operators in manual control systems. The Journal of the Human Factors Society, 8(2), 97.
- 1212 Wierwille, W. W., & Gagne, G. A. (1966). Time varying and nonlinear models of human operator dynamics. The 2nd Annual NASA University Conference on Manual Control, NASA SP-128, 107.
- 1213 Wierwille, W. W., Gagne, G. A., & Knight, J. R. (1967). An experimental study of human operator models and closed-loop analysis methods for high-speed automobile driving. IEEE Transactions on Human Factors in Electronics, 8(3), 187.
- 1214 Wilkerson, H. R. (1980). Massed practice and sex effects in tracking skills. Dissertation Abstracts International, 40(7-B), 3457.
- 1215 Willen, T. B. (1974). The human pilot as a dynamic element in aircraft control systems (Report No. ASD-TR-73-47). Wright-Patterson Air Force Base, OH: Aeronautical Systems Division.
- 1216 Williams, A. C., Jr. (1971). Discrimination and manipulation in goal directed instrument flight. Aviation Research Monographs 1(1), 54.
- 1217 Williams, L. R., & Grbin, I. R. (1976). The large pursuit rotor: A new gross motor tracking task. Journal of Motor Behavior, 8(3), 245-250.
- 1218 Williams, L. R. T., Cooper, C. M., & Gilkison, B. K. (1976). Specificity principle and performance and learning a gross tracking task under interpolated heavy physical exercise. Perceptual and Motor Skills, 42, 1339-1346.
- 1219 Williams, P. R., Harper, H. P., & Kronholm, M. B. (1967). An evaluation of an integrated V/STOL display concept. IEEE Transactions on Human Factors in Electronics, 8(2).
- 1220 Williams, R. A., & Fender, D. H. (1979). Velocity precision in smooth pursuit eye movements. Vision Research, 19(3), 343-348.
- 1221 Williges, B. H., & Williges, R. C. (1977). Learner-centered automated adaptive motor skill training. Journal of Motor Behavior, 9(4), 325-331.

- 1222 Williges, R. C., & Baron, M. L. (1973). Transfer assessment using a between-subjects central-composite design. Human Factors, 15(4), 311-319.
- 1223 Williges, R. C., & Simon, C. W. (1971). Applying response surface methodology to problems of target acquisition. Human Factors, 13(6), 511-519.
- 1224 Wilson, R. V. (1972). The effect of handedness on a tracking task, (Report No. RAE-TR-72117; DRIC-BR-31173). Farnborough, England: Royal Aircraft Establishment.
- 1225 Wilson, R. V. (1974). Display collimation under whole-body vibration. Human Factors, 16(2), 186-195.
- 1226 Wingrove, R. C., & Edwards, F. G. (1968). Measurement of pilot describing functions from flight test data with an example from gemini X. IEEE Transactions on Man-Machine Systems, 9(3), 49.
- 1227 Winter, D. C. (1971). Matching an image display to a human observer. Electro-Optical Systems Design, 3(9), 40-44.
- 1228 Winterson, B. J., & Steinman, R. M. (1978). The effect of luminance on human smooth pursuit of perifoveal and foveal targets. Vision Research, 18(9), 1165-1172.
- 1229 Wolfe, J. W., Engelken, E. J., Olson, J. W., & Allen, J. P. (1978). Cross-power spectral density analysis of pursuit tracking: Evaluation of central and peripheral pathology. Annals of Otology, Rhinology and Laryngology, 87(6), 837.
- 1230 Wolfe, J. W., Engelken, E. J., Olson, J. W., & Kos, C. M. (1978). Vestibular responses to bithermal caloric and harmonic acceleration. Annals of Otology, Rhinology, and Laryngology, 87(6), 861.
- 1231 Wood, C. J. (1986). Evaluation of meditation and relaxation on physiological response during the performance of fine motor and gross motor tasks. Perceptual and Motor Skills, 62(1), 91-98.
- 1232 Wooler, J. (1972). The measurement of driver performance. Ergonomics, 15(1), 81-87.
- 1233 Wright, B. M. (1984). Sex differences in psychomotor reminiscence and performance in elderly subjects. Dissertation Abstracts International, 44(11-B), 3562-3563.
- 1234 Wright, B. M., & Payne, R. B. (1985). Effects of aging on sex differences in psychomotor reminiscence and tracking proficiency. Journal of Gerontology, 40(2), 179-184.
- 1235 Wulfeck, J. W. (1973). Transfer of training from predictor to conventional displays (Report No. AFOSR-TR-73-2330). Inglewood, CA: Dunlap and Associates, Western Division.
- 1236 Wyatt, H. J., & Pola, J. (1979). The role of perceived motion in smooth pursuit eye movements. Vision Research, 19(6), 613-618.



- 1237 Wyatt, H. J., & Pola, J. (1983). Smooth pursuit eye movements under open-loop and closed-loop conditions. Vision Research, 23(10), 1121-1131.
- 1238 Wyatt, H. J., & Pola, J. (1984). A mechanism for suppression of optokinesis. Vision Research, 24(12), 1931-1945.
- 1239 Xynetics (1971). Xynetics' automated drafting system. Information Display, 8(4), 24.
- 1240 Yamashita, T. (1983). Comparison between the pursuit tracking behavior and the compensatory tracking behavior. Japanese Journal of Psychonomic Science, 2(2), 69-73.
- 1241 Yamashita, T., & Masuyama, E. (1984). Analysis of tracking behavior in patients with muscular dystrophy. Japanese Journal of Psychology, 55(2), 102-108.
- 1242 Yamashita, T., & Matsuura, K. (1987). A componental analysis of two dimensional compensatory tracking behavior. Japanese Psychological Research, 29(1), 42-47.
- 1243 Yamashita, T., & Sameshima, M. (1985). A study of tracking behavior in adults with cerebral palsy: On muscular contraction mechanism and motor perception. Japanese Journal of Psychology, 56(1), 22-28.
- 1244 Yamashita, T., Sameshima, M., Imaizumi, Y., & Suzuki, Y. (1987). Analysis of tracking behavior in adults with cerebral palsy: On motor control, muscular contraction and perception of muscular tension in step response. Japanese Journal of Special Education, 25(2), 51-59.
- 1245 Yavin, Y. (1984). Stochastic pursuit-evasion differential games in the plane (Report No. CSIR-TWISK-343). Pretoria, South Africa: National Research Institute for Mathematical Sciences.
- 1246 Yin, Y. K., Sahara, K., Dea, V., & Netch, A. (1982, June). Human response modeling and field test validation of an air defense gun system simulation. Proceedings of the 18th Annual Conference on Manual Control, Dayton, OH.
- 1247 Young, L. L., Jensen, R. S., & Treichek, C. W. (1973). Uses of a visual landing system in primary flight training. Proceedings of the 17th Annual Meeting of the Human Factors Society, 265-271.
- 1248 Young, L. R. (1966). Some effects of motion cues on manual tracking. The 2nd Annual NASA University Conference on Manual Control, NASA SP-128, 231.
- 1249 Young, L. R. (1969). On adaptive manual control Ergonomics, 12(4), 635.
- 1250 Young, L. R., Green, D. M., Elkind, J. I., & Kelly, J. A. (1964). Adaptive dynamic response characteristics of the human operator in simple manual control. IEEE Transactions on Human Factors in Electronics, 5(1), 6.
- 1251 Young, L. R., & Stark, L. (1963). Variable feedback experiments testing a sampled data model for eye tracking movements. IEEE Transactions on Human Factors in Electronics, 4(1).

- 1252 Young, L. R., & Winblade, R. (1966). M.I.T. NASA working conference on manual control. IEEE Transactions on Human Factors in Electronics, 4(1).
- 1253 Young, M. L. (1951). Psychological studies in tracking behavior. Part III: The characteristics of quick manual corrective movements made in response to step-function velocity inputs (Report No. 3850). Washington, DC: U.S. Naval Research Laboratory.
- 1254 Zacharias, G. L., & Levinson, W. H. (1979). A performance analyzer for identifying changes in human operator tracking strategies (Report No. BBN-3910; AMRL-TR-79-17). Cambridge, MA: Bolt Beranek and Newman.
- 1255 Ziegler, P. N. (1968). Single and dual axle tracking as a function of system dynamics. Human Factors, 10(3), 273.
- 1256 Ziegler, P. N., & Chernikoff, R. (1968). A comparison of three types of manual controls on a third-rider tracking task. Ergonomics, 11(4).
- 1257 Zohr, D. (1974). Amount and order of redundancy as determinants of continuous tracking performance. Journal of Motor Behavior, 6(4), 165-178.

## AUTHOR INDEX

### A

Abdel-Malek, A.	0001
Abernathy, C. N.	0639
Abernethy, C. N., III	0002, 1079
Abrams, M. L.	0003
Acker, W.	0004
Acosta, H. M.	0005
Adams, A. J.	0006, 0500
Adams, J. A.	0007, 0008, 0009, 0010, 0011, 0012, 0747, 1177
Adams, J. J.	0013, 0081
Adams, J. L.	0014
Adler, A.	0015
Agarwal, G. C.	0018, 0363, 0495
Aiken, E. G.	0201
Albanese, R.	1050
Albers, J. W.	0019
Alford, W. L.	0954, 0955, 1020
Allan, J. R.	0020
Allan, R.	0251
Allen, J. P.	1229
Allen, R. E.	0242
Allen, R. W.	0021, 0022, 0023, 1185
Allen, W. H.	0024
Allport, D. A.	0025
Alluisi, E. A.	0026, 0175
Allum, J.	0629
Ammons, R. B.	0027, 0028
Anderson, B.	0107
Anderson, D. A.	0719
Anderson, D. M.	0029
Ando, K.	0030
Andreas, B. G.	0031, 0032, 0033, 0034
Andrew, G. M.	0035
Angel, E. S.	0036, 0069
Antonelli, D. J.	1168
Antonis, B.	0025
Ardema, M. D.	0407
Armstrong, J. W.	0037
Ashworth, B. R.	0038, 0844
Atanasoff, J. V.	0039
Ayoub, M. M.	0521
Ayres, T. J.	0040

### B

Bachman, J. A.	0804
Bacon, J. H.	0041

Bacon, S. J.	0042
Badger, C.	1102
Bahill, A. T.	0043, 0044, 0045, 0046, 0715
Bahrack, H. P.	0047, 0048, 0049, 0123, 0124,
Bailey, A. W.	1086
Bailey, J. A.	0367
Bairstow, P. J.	0630
Baker, C. A.	0671
Baker, J. C.	0343
Bala, S. P.	0050
Balakrishna, S.	0051
Baloh, R. W.	0052
Bamborough, P.	0394
Bamford, H. E., Jr.	0915
Banasik, R. C.	0053
Bancroft, H.	0630
Banerji, N.	0062
Bankhead, I.	0683
Bar-Or, O.	0639
Barba, C. A.	0054
Barber, P. J.	0672
Barnes, G. R.	0055
Baron M. L.	1222
Baron, S.	0056, 0057
Barr, C. C.	0058
Barret, G. V.	0059
Bartfai, A.	0060, 0061
Barton, C. N.	0078
Bartram, D.	0062
Bartz, A. E.	0063
Barzniji, J.	0871, 0872, 0873
Bates, J. A. V.	0411
Baty, D. L.	0064, 1188
Bauchmoyer, S. L.	0065
Bauerschmidt, D. K.	0088
Beatrice, E.	1059
Beatrice, E. S.	0834, 0835, 0853
Beatty, J.	0595
Becklen, R.	1156
Bedard, E. W.	0245
Beirness, D. J.	0066
Bekey, G. A.	0067, 0068, 0069, 0070, 0071, 0072
Belanger, P. R.	0073
Bell, A. C.	1004
Bellodi, L.	0965, 1024
Bender, J. G.	0074
Benel, R. A.	0075
Benepe, O. J.	0076
Benfari, R. C.	0077
Benignus, V. A.	0078, 1032
Benjamin, D.	0682
Bennett, B.	0958
Bennett, C. T.	0099
Bennett, W. F.	0048

Benson, A. J.	0079
Benson, E.	0220
Berbert, A. G., Jr.	0986
Bergeron, H. P.	0080, 0081
Bergman, C. A.	0082
Berkhout, J.	0083, 0084, 0085
Berliner, J. E.	0057
Bernotat, R. K.	0086
Bernstein, N.	0087
Berry, D. T.	0894
Besco, R. O.	0088
Beshir, M. Y.	0089, 0090, 0902
Besner, E.	1007
Best, P. R.	1056, 1058
Bhagat, P. K.	0714
Bickerdike, J. S.	1047
Billing, A. M.	0911
Binias, G.	0091
Birch, L. L.	0092
Birke, M.	0936
Birmingham, H. P.	0093, 0094, 0095, 0171, 0858, 0952, 1087, 1093
Bittencourt, P. R.	0096
Bittner, A. C.	0563, 0564
Bizzi, E.	0629
Black, J. H.	1009
Black, J. L.	0097
Blais, C.	0566, 0567
Blehschmidt, C. C.	0098
Blick, D. W.	0099
Bliss, J. C.	0985
Bloom, K. R.	0100
Bloomfield, J. R.	0101
Bloswick, D. S.	0102
Boden, C.	0253
Boer, L. C.	0330
Boesser, T.	0103
Bollen, E. L.	0104
Bond, J. R.	0917
Book, W. J.	0105
Borton, R.	0776
Bowen, H. M.	0108, 0107
Bowen, J. H.	0108, 0109, 0171
Boyd, E. T.	0110
Bradley, D. R.	0111, 0112, 0194, 0195
Bradley, J. V.	0113, 0114, 0115, 0116, 0993
Braune, R.	0117
Breitmaier, W. A.	0158
Brewton, C. B.	0378
Brezinova, V.	0118
Brickner, M.	0119, 0355, 0356
Bricton, C. A.	0120, 0121
Bridgeman, B.	0122
Briggs, G. E.	0123, 0124, 0125, 0449
Briggs, N. L.	0126

Briggs, P.	0127
Brikner, M.	0355
Broadbent, D. E.	0129
Broadhurst, A.	0129
Brockmann, W.	0970
Brooks, V. B.	0130
Brown, B.	0006, 0382
Brown, G.	0131
Brown, J. L.	0132
Bryson, A. E., Jr.	0233
Buck, L.	0133, 0134, 0135, 0136, 0137, 0138, 0139, 0140, 0141
Buckhout, R.	0142
Buettner, M.	0143
Buhler, F. T.	0144
Burger, G. C. E.	0145
Burke, D.	0146
Burke, M. W.	0147
Burkhardt, J. F.	1145, 1146
Burnham, D. K.	0150
Burrows, A. A.	0149
Buskirk, E. R.	0639
Bylsma, F. W.	0870

## C

Cabe, P. A.	0059
Calcaterra, P. C.	0242
Caldwell, L. S.	0150
Calhoun, G. L.	0151
Caluda, M. J.	0152
Campadelli, P.	1139
Campbell, D.	0131
Cannon, R. H., Jr.	0153
Carl, J. R.	0154
Carlson, B. R.	0155
Caro, P. W., Jr.	0156
Carpp, L.	1067
Carretta, T. R.	0157
Casey, S. M.	0158
Cassel, T. Z.	0394
Catalano, J. F.	0159, 0160, 0323
Cegalis, J. A.	0161, 0162
Chambers, R. M.	0163, 0164, 0165
Chang, J. W.	0692
Channell, R. C.	0273
Chao, N.	0166
Chapanis, A.	0167
Charipper, B. A.	0168
Chase, R. A.	0169
Chawla, S.	0170, 0593
Chen, S. S.	0905
Chernikoff, R.	0108, 0109, 0171, 0173, 0248, 1256

Cherry, N.	0173
Childress, D. S.	0174
Chiles, W. D.	0175, 0176, 0509, 0510
Chu, F. C.	0837
Churcher, J.	0409
Ciavarelli, A. P.	0121
Clark, C.	0098, 0177
Clark, H. J.	0178, 0179, 0180
Cliff, R. C.	0181
Clorfeine, A. S.	0182
Clutton, B. J.	0183
Cobb, J. B.	0855
Codding, G. C.	0184
Coeterier, J. F.	0185, 1039
Cohen, A.	0186
Cohen, A. P.	0104
Cohen, B.	0640
Cohen, B. J.	0187, 0188, 0189, 0190
Cohen, E.	0191
Cohen, E. Dr.	0192
Cohen, H. S.	0193
Cohen, S.	0194, 0195
Coleman, A.	0196
Collewijn, H.	0248, 1126, 1127
Collins, A. M.	0197
Collins, D. W.	0097
Collins, W. E.	0198, 0976, 0977, 0978
Conklin, J. E.	0199
Connors, G. J.	0688
Conroy, J.	0246
Cooke, C. R.	0200
Cooley, W. E.	0201
Cooper, C. M.	1218
Cooper, P. M.	0870
Corballis, M. C.	0202
Corrigan, J. G.	0423, 0424
Costello, R. G.	0203, 0204
Cote, D. O.	0205
Coterman, T. E.	1206
Coyne, L.	1051
Cozzone, A.	0206
Craig, D. R.	0207, 0208, 0209, 0269
Craik, K. J. W.	0210, 0211, 0212, 0213
Crane, H. L.	0214
Crawford, B. M.	0215
Creamer, L. R.	0011
Crim, A. D.	1200
Crooks, W. H.	0216, 0217
Crossman, E. R. F. W.	0218
Crundall, I.	0219
Cruzen, M.	0994
Culee, C.	0949
Currie, J.	0220
Cushing, J.	0245

Cushman, W. B.	0220
<b>D</b>	
Damos, D.	0222
Damos, D. L.	0222, 0223, 0225, 0226, 0361, 0362
Dander, V. A.	0227
Daniels, R. W.	0228
Darby, B. L.	0776
Darcus H. D.	0229
Darley, D. L.	0260
Davall, P. W.	0230
Davenport, K. S.	0378
Davies, B. L.	0786
Davis, J. M.	0654
Davis, M.	0231
De Graff, B.	0235
De Roach, J. N.	0097
Dea, V.	1246
Dean, A. L.	0232
DeBra, D. A.	0233
Decostre-Voisin, M. F.	0234
Del Ray, P.	1195
Del Rey, P.	0237
Dell'Osso, L.	0236
Delp, H. P.	0218
Denton, G. G.	0238
Derrick, W.	1201
DeSocio, E.	1147, 1151
Dickinson, J.	0240
Dickinson, R. G.	0149
Dietrich, J. M.	0241
Dill, A. B.	0365
Dimasi, F. P.	0242
Dimitrov, G.	0668, 0768, 0769
Dinan, J. A.	0243
Domey, R. G.	0244
Donchin, E.	0603, 1203
Doorley, R. D.	0245, 0243
Dougherty, D. J.	0932
Dowd, J. F.	1086
Dowd, P. J.	0826
Dowling, K.	0608
Dubois, M. F.	0247
Duckstein, L.	0110
Duey, J. W.	0172, 0248
Duffendack, J. C.	0863, 0864, 0865, 0866
Dugan, G. E.	0303
Dugas, D. J.	0859
Duhe, D. A.	0232
Dunbar, S. L.	0249
Dunham, P.	0250, 0251
Dunlap, J. W.	0838
Durand, T. S.	0252



Dureman, E. I.	0253
Durr, L.	1147
Dursteler, M. R.	0254

## E

Eastman, M. J.	0130
Eberhardt, E. H.	0255
Eckmiller, R.	0256
Eckstrand, G. A.	0921
Edwards, A.	0891
Edwards, F. G.	0257, 1226
Ehlers, T.	0258
Eijkman, E. G.	1125
El-Gabalawi, N.	0325
El-Nawawi, M. A.	0090
El-Sabagh, A. S.	0090
Elam, G. W.	0976
Elder, W. L.	1153, 1154
Elkind, J. I.	0259, 0260, 0261, 0262, 0263, 0374, 0754, 1250
Elkind, J. L.	0650
Ellis, H. B.	0264
Ellis, M. J.	0265
Ellis, N. C.	0102, 0266
Ellson, D. G.	0076, 0208, 0209, 0267, 0268, 0269, 0270, 0271, 0272, 0368, 1172
Ely, J. H.	0273
Emelity, D.	1066
Engelken, E. J.	0274, 0275, 1229, 1230
Enright, J. T.	0273
Eppler, W. G., Jr.	0153
Eschenbrenner, A. J.	0190
Esgandarian, G. E.	1057
Eysenck, H. J.	0129

## F

Fabis, F. B.	1001
Falb, P. L.	0278
Fallesen, J. J.	0399
Farber, N.	0279
Farley, F. H.	0186
Farnandez, J. H.	0285
Farr, D. E.	0744
Farrell, J. E.	0280
Faubert, D. B.	0281
Fazio, C. P.	0282
Fender, D. H.	1220
Fendrich, R.	0681
Fensch, L. K.	0863, 0864, 0865, 0866
Fenton, R. E.	0074, 0283, 0284, 0344, 0346, 0951

Ferguson, J. L.	0221
Ferrell, W. R.	0193, 0286, 0287, 1002, 1003
Ferslew, K. E.	0288, 0289, 0290
Festinger, L.	0291, 0437
Findlay, J. M.	0781
Findle, M. S.	1192
Fineman, T.	0292
Fisher, L. E.	1155
Fitts, P. M.	0048, 0049, 0123, 0124, 0812, 0815
Flach, J. M.	0497
Flanagan, S. D.	0435
Fleishman, E. A.	0293, 0316
Fleming, D. R.	0727
Fletcher, W. A.	0903
Flexman, R. E.	0294
Flipse, J. P.	0295
Flom, M. C.	0006
Fluhr, F. R.	0296, 0297, 0298
Foddy, M.	0219
Fogel, L. J.	0299
Folkers, C. E.	0300
Folley, J. D., Jr.	0301
Foot, H. C.	0302
Ford, A.	0303
Forman, W. R.	0304
Forster, P. M.	0305
Fort, P. W.	1154
Fowler, C. A.	0306
Fowler, V. J.	0307
Fox, G.	0308
Fracker, M. L.	0309, 0310, 0311
Frank, A.	0839
Frank, J.	0312, 0313
Franks, I. M.	0314
Franks, P. E.	0922
Fraser, T. M.	0588
Frazier, J. W.	0315, 0913
Freedle, R. O.	0316
Freedy, A.	0317, 0318
Freischlag, J.	0319, 0320
Freitag, M.	0746
French, K. E.	1099
French, S. N.	0321
Fricker, C. J.	1148
Freund, H. J.	0640
Friedlander, G. D.	0322
Friedman, M. B.	0323, 0715
Frith, C. D.	0626
Frost, G. G.	0324
Fry S.	0393
Fu, K. S.	0348, 0364, 0585
Fujita, T.	0325
Fullerton, G. S.	0326
Fumoto, N.	0327, 0328, 0329

## G

Gagne, G. A.	1210, 1211, 1212, 1213
Gaillard, A. W. K.	0330
Gainer, C. A.	0747
Gainer, P. A.	0331
Gale, H. J.	1043
Gambini, O.	0965, 1024
Gantzer, D. J.	0332
Garfinkle, D. R.	1034, 1035
Garner, K. C.	0333
Garret, J. W.	0334
Garvey, W. D.	0952, 1087
Gattell, J.	0326
Gauthier, G. M.	0236, 0335
Geffen, G.	1113
Geldard, F. A.	0336, 0337
Gellman, R. S.	0151
Gerall, A. A.	0338, 0339
Gerlach, O. H.	0340
Gibbs, C. B.	0146, 0341, 0342, 0343
Gibson, R. D.	0344
Gibson, T. M.	0020
Gifford, R. N.	0345
Gilbarg D.	0267
Gilbert, I.	1120
Gilkison, B. K.	1218
Gill, J. M.	0230
Gilligan, M. B.	0708
Gilson, R. D.	0147, 0346, 0347, 0496, 0497, 0977, 0978
Gilstad, D. W.	0348
Girgus, J. S.	0193, 0194
Glass, B. C.	0914
Glass, R. A.	1135
Glazar, A.	0393
Glenn, F. A.	0349, 0625
Glenn, L.	0122
Glenny, G.	0350
Gliner, J. A.	0351
Goddard, C. J.	1185
Godiksen, E. B.	0112
Gold, T.	0352
Goldberg, S. C.	0943
Goodman, D.	0560, 0561
Goodman, L. S.	0710
Goodson, J. E.	0353, 0354
Goodwin, J.	0683
Goodyear, C. D.	0315
Gopher, D.	0119, 0355, 0356, 0357, 0358, 0359, 0360, 0361, 0362, 0798, 0821
Gottlieb, G. L.	0018, 0363, 0495, 0839
Gould, E. E.	0364
Gould, J. D.	0365

Gourishankar, V.	0366
Graf, C. P.	0228
Graves, H. C.	0367
Gray, F. E.	0268, 0368
Gray, R.	0369
Grbin, I. R.	1217
Green, D. A.	0232
Green, D. M.	0261, 1250
Green, R. F.	0032, 0338, 1184
Greening, C. P.	0370
Gregg, C. L.	0371
Grether, W. F.	0372, 0373
Grey, F. E.	0270
Grice, J. K.	0003
Grierson, A. T.	0305
Griffin, M. J.	0656, 0657, 0726
Griffith, R.	0052
Grignetti, M. C.	0374
Groper, B. A.	0167
Gross, K.	0946
Groth, H.	0375, 1034, 1187
Gschwind, R. T.	0377
Guedry, F.E., Jr.	0347, 0378, 0978, 0905
Guericio, J. G.	0379
Guignard, J. C.	0373
Gyan, C.	0839
Gydikov, A.	0380

## H

Haberman, S. J.	0454
Hackford, R. H., Jr.	0381
Haegerstrom-Portnoy, G.	0382, 0500, 0854
Hafele, E.	0965
Hafez, H.	0161
Haffner, M. E.	0371
Hagan, S. J.	0383, 0384
Hah, S.	0498
Hahn, J. F.	0385
Hain, T. C.	0645
Hall, I. A. M.	0984
Hall, T. J.	0026
Hamilton, J.	1013
Hammerton, M.	0386, 0387, 0388, 0389, 0390, 0391
Hammond, D.	0392
Hans, M. W.	0393
Harman, G. A.	0836
Harper, H. P.	1219
Harpsky, J. S.	0824
Harris, C. S.	0373
Harris, D. H.	0718
Harris, D. R.	0930

Harris, P. L.	0394, 0395
Harris, S. D.	0396
Harris, T. M.	0623
Hartman, B. O.	0397
Hartman, H. H.	0418
Hartwell, N. M.	0397
Hartzell, E. J.	0914
Hasler, S. G.	0932
Hatch, H. G., Jr	0855
Hawkes, G. R.	0026
Hayaski, K.	0532
Heimstra, M. W.	0398, 0422, 1169
Hennessy, R. T.	0639
Henriksson, N. G.	0966
Henry, P. H.	1071
Henschke, U. K.	0400
Henson, J. B.	0428
Herman, E.	0679, 0680
Herrera, G.	0325
Hershberger, M. L.	0401
Herzog, J. H.	0402
Hess, R. A.	0403, 0404, 0405, 0406
Heymann, M.	0407
Heyning, J. M.	0408
Heywood, S.	0350, 0409
Hick, W. E.	0410, 0411
Hickok, J. H.	0412
Hicks, S. A.	0413
Higgins, T. J.	0204
Hilgendorf, L.	0414
Hill, H.	0269, 0271, 1172
Hill, J. W.	0415
Hill, M. R.	0943
Hillberg, C.	0416
Hindle, A.	0417
Hobart, D. C.	0418
Hoening, P.	0196, 0197
Hofferer, J. M.	0335
Hoffman, C. S.	0419
Hoffman, E. R.	0420, 0421, 0721, 0721
Hofman, M. A.	0422
Hofmann, L. G.	0127
Hohnsbein, J.	0697
Holden, E. A.	0423, 0424
Holding, D. H.	0425, 0426
Holland, C. L.	0427
Holland, J. G.	0428
Holt, W. R.	1070
Holtzman, J. D.	0291, 0437
Holzman, P. S.	0429, 0430, 0431, 0432, 0433, 0434, 0435, 0436, 0631, 0643, 0654, 0662, 1043
Honda, H.	0438, 0439
Hones, M. B.	0563
Honey, F. J.	0440

Hoover, T. O.	0441
Hopkin, V. D.	0442, 0443
Hoppe, R. B.	0444, 0445
Hornick, R. J.	0446, 0447
Horvath, S. M.	0351
Hosman, R. J.	0448
Hosman, R. J. A. W.	1128
Houston, L.	1102
Howat, M. R.	0665
Howell, W. C.	0449
Hrapsky, J. S.	0450
Hsu, S.	0451
Huang, K. L.	0452, 0849
Huchingson, R. D.	0453
Huddleston, H. F.	0454, 0455
Huddleston, J. H. F.	0079
Huddleston, J. H.	0456
Hughes, D. W.	0436
Hughes, P.	0040
Hull, C. L.	0457, 0458, 0459
Hull, F. C.	0317
Hulme, C.	0668
Hummel, T. L.	0460
Humphrey, C. E.	0461, 0462, 0463, 0464
Hundley, P. L.	0465
Hunsicker, P. A.	0466, 0467
Hunt, D. P.	0468
Huntley, M. S. Jr.	0469
Hutton, J. T.	0470, 0471
Hyde, F.	0140, 0141

## I

Iacono, W. G.	0472, 0473, 0474, 0475, 0476, 0477, 0478, 0479, 0480, 0481
Iandolo, M. J.	0043
Igarashi, M.	1090
Iguchi, H.	1091
Imaizumi, Y.	1244
Imhoff, D. L.	0482
Ince, F.	0483, 0484, 0485, 0486, 0487, 1085
Indermill, C.	0590
Inomata, K.	0808
Insel, T. R.	1013
Interian, A.	0021
Irion, A. L.	0488
Irwin, D. E.	1078

## J

Jackson, A. S.	0489, 0490, 0491, 0492, 0493
Jaegar, R. J.	0494, 0495, 0804
Jaermark, B.	0416
Jaffe, J.	0962
Jagacinski, R. J.	0147, 0496, 0497, 0498
James, H. M.	0499
Jamolsky, A.	0006
Jampolsky, A.	0500
Janousek, J. A.	0501
Janow, C.	0502
Jaquet, B. M.	0503
Jeantheau, G. G.	0504
Jenkins, W. O.	0505, 0506, 0507, 0508
Jennings, A. E.	0175, 0176, 0509, 0510
Jensen, R. S.	1247
Jex, H. R.	0021, 0022, 0023, 0252, 0511, 0512, 0513, 0514, 0730
Johannsen, G.	0515
Johanson, C. E.	0030
Johnson, A. P.	0516
Johnson, B. E.	0517
Johnson, B. L.	0900
Johnson, I. S.	0802
Johnson, R. A.	0481
Johnson, R. M.	0518
Johnson, S. L.	0519, 0520
Johnson, W. M.	1004
Johnston, W. L.	0521
Jones, A. L.	0523
Jones, A. M.	0524
Jones, B. W.	0975
Jones, E. C., Jr.	0525
Jones, K. N.	1098
Jones, M. B.	0526, 0564
Jones, R.	0500
Jones, R. T.	0006, 0854
Joos, H. D.	0527
Jordan, S.	0528
Joubert, P. N.	0420, 0421
Justin, J. E.	0529

## K

Kafer, E. R.	1032
Kahn, A.	0094
Kallis, S. A., Jr.	0530
Kalsbeek, J. W. H.	0531
Kano, C.	0532
Kao, H. S.	0533, 0534, 0535, 0536, 0537, 0538, 0539, 0540, 1029
Kaplan, R.	1029
Karlin, L.	0541

Karr, A. C.	0508
Kasai, T.	0542
Katkin, W.	1017
Katz, P. A.	0936
Kaufman, E. L.	0543
Kaufman, L.	1092
Kawano, K.	0544, 0545, 0959
Keast, D. N.	0546
Keemink, C. J.	0295
Keller, E. L.	0545, 0707, 1084
Kelley, C. R.	0273, 0548, 0549, 0550, 0551, 0552, 0553, 0554, 0555, 0556, 0557, 1166, 1167
Kelly, J. A.	0262, 1250
Kelly, M. J.	0558
Kelly, P. A.	0581
Kelly, R. T.	0693
Kelso, J. A. S.	0559, 0560, 0561
Kendell, R. E.	0118
Kennedy, J. E.	0562
Kennedy, R. S.	0563, 0564
Kenyon, R. V.	0565
Kerber, H. E.	0059
Kerr, R.	0566, 0567
Keselman, M.	0568
Kessel, C.	0569, 1202
Khachaturyants, L. S.	0570
Khalil, T. M.	0571
Khan, N. S.	0547
Kimble, G. A.	0572
Kimura, H.	0784
Kincaid, J. K.	0081
King, B.	0779
King, L. E.	0573
Kinkade, R. G.	0574, 0573
Kinney, G. C.	0576
Kinsella, K. J.	0577
Kinsley, S. A.	0399
Kipperman, M. C.	0578
Kirchner, J. H.	0579, 0910
Kirsch, H.	0580
Klapp, S. T.	0581
Klass P. J.	0582, 0583
Klein, H. L.	1159
Kleinbeck, U.	0970
Kleinman, D. L.	0056
Klensch, R. J.	0997
Knight J. R.	1213
Knoop, D. E.	0584, 0585
Knowler, E.	0586
Knowles, W. B.	0587
Kochnar, D. S.	0588
Koenig, W. G.	0476
Kogi, K.	0589
Kohl, M.	0590



Kohl, R. M.	1117
Kolb, J.	0591
Komoriya, K.	1091
Kondo, M.	0592
Konz, S.	0170, 0593
Korner, A. F.	0371
Kornfeld, C. M.	0594, 0595
Kos, C. M.	1230
Kovatch, G.	0278
Kovit, B.	0596
Kowler, E.	0597, 0598, 0599, 0600
Kraft, J. A.	0601, 0602
Kramer, A.	1203
Kramer, A. F.	0603
Kraus, E. F.	0604
Krause, H. E.	0605
Krebs, M. J.	1096
Kreifeldt, J. G.	0606, 0607, 1004
Kremenitzer, J. P.	0608
Krendel, E. S.	0609, 0610, 0611, 0731, 0752
Kringlen, E.	0434, 0434
Krischer, C. C.	0143
Kroemer, K. H. E.	0605, 0612, 0613
Krol, J. P.	0614
Kronholm, M. B.	1219
Krueger, G. P.	1070
Kubicek, W. G.	0847
Kubitz, W. J.	0615
Kubokawa, C. C.	0616, 0617
Kugath, D. A.	0024, 0618
Kurtzberg, D.	0608
Kuttan, A.	0619
Kvalseth, T. O.	0620, 0621

## L

Laabs, G. J.	0622, 1052
Lackner, J. R.	0701, 0702
Laidlaw, W. R.	0623
Lancaster, R. A., Jr.	0624
Landesman, J.	0562
Landis, D.	0940
Lane, N. E.	0625
Lang, R. J.	0626
Lang, R. P.	0627
Langmo, R. D.	0628
Lanman, J.	0629
LaRitz, T.	0044
Lasker, A. G.	0749
Laszlo, J. I.	0630
Latham, C.	0631
Lauring, W.	0579, 0910

Lavender, C. E.	0184
Lawrence, P. D.	0632
Lazar, R. G.	0633
Le Cocq, A. D.	0634, 0635
Ledbetter, J. D.	0636
Leducq, P.	0637
Lefritz, N. L.	0443, 0447
Leguire, L. E.	0638
Leibowitz, H. W.	0639, 0878, 0880
Leist, A.	0640
Leonardo, R.	0140, 0141
Levin, S.	0641, 0642, 0643, 0644, 0645, 0662, 1043, 1065
Levine, J. M.	0482
Levine, M.	0646, 0647
Levine, R. R.	0648, 0770, 1056, 1057, 1058
Levinson, H. N.	0312, 0313
Levinson, W. H.	0649, 0650, 0651, 1254
Levison, W. H.	0056
Levy, A.	1110
Levy, D. L.	0434, 0652, 0653, 0654, 0662
Lewin, J.	0655
Lewis, C. H.	0656, 0657
Lewis, D. H.	1063
Li, Y. T.	0658
Liberman, G.	0233
Lichtenstein, M.	0659
Lin, W. C.	0632
Lincoln, R. S.	0660
Lintern, G.	0223
Lips, K. W.	0661
Lipton, R. B.	0644, 0654, 0662
Lisberger, S. G.	0663, 1119
Llewellyn-Thomas, E.	0664, 0665
Lloyd, A. J.	0666
Lloyd, D. S.	0096
Loewenson, R. B.	0471
Lollar, T. E.	0667
Lonbardo, J. P.	0323
London, R. M.	0801
Long, E. R.	0855
Lopez, A. E.	0257
Lord, R.	0668
Loucks, B. E.	0144
Loucks, R. B.	0669
Lovess, N. E.	0670
Lovinger, D. N.	0671
Lowe, A. L.	0266
Lucaccini, L. F.	0317
Luder, C. B.	0672
Luebke, A.	0645
Luebke, A. E.	0673
Lumbley, J. L.	1082
Lund, D. J.	0648, 0771, 0834, 0835, 0891, 1057, 1058, 1059
Luse, J. D.	0674

Lykken, D. T.	0477, 0478, 0479, 0480
Lyman, J.	0317, 0345, 0375, 1034, 1035

# M

MacAdam, C. C.	0675
Mack, A.	0679, 0680, 0681, 0682
MacKay, D. N.	0683
Mackro, J.	0684
Mackworth, N. H.	0664, 0665, 0686, 0687
MacNeilage, P. F.	0685, 1081, 1082
Macrea, A. W.	0426
Magdaleno, R. E.	0022, 0511, 0686, 0687, 0732
Maistro, S. A.	0688
Malmstrom, F. V.	0689
Malone, T. B.	0502
Manfredi, U.	0528
Manschreck, T. C.	0631
Manvi, R.	0325
Marcus, L.	0196
Marken, R.	0690
Marlowe, E.	0815
Marmarelis, V. Z.	0001
Marrocco, R. T.	0691
Marsh, N. W.	0692
Marston, P. T.	0693
Martin, D. W.	0693
Martin, E. A.	0694
Martins, A. J.	0599
Maslen, K. R.	0369
Mastin, W. C.	0695
Mastroianni, G. R.	0696
Masuyama, E.	0697, 0960, 1241
Mateeff, S.	0698, 0699
Matheny, W. G.	0266, 0700, 0818
Mather, J. A.	0701, 0702, 0703, 0704
Matous, J.	0667
Matsue, Y.	0705
Matsuoka, K.	0704
Matsuura, K.	1242
Matthews, A. J.	0577
Matthysse, S.	0435
Mauch, H. A.	0400
Mavor, A. S.	1136
May, J. G.	0707
Mayberry, W.	0708
Mayhall, B.	0957
Mayr, O.	0709
McBride, D. K.	0710
McCloy, T. M.	0711
McConnell, D.	0712
McCord, D. M.	0713
McCoy, D. F.	0714
McDonald, J. D.	0045, 0715

McDonnell, J. D.	0512, 0513, 0514, 0716
McElwain, C. S.	0088
McFreely, T. E.	0717
McGovern, D. E.	0415
McGrath, J. J.	0718
McKee, S. P.	0600, 1191
McKissick, B. T.	0038, 0844
McLane, R. C.	0719, 0720
McLaughlin, D. J.	0298
McLean, J. R.	0721, 0722
McLeod, P. D.	0723, 0724, 0725
McLeod, R. W.	0726
McMahon, M. L.	0830
McNeal, D. R.	0418
McNee, R. C.	0826
McPhate, A. J.	0727, 1194
McRuer, D. T.	0686, 0728, 0729, 0730, 0731, 0732, 0984
Mead, P. G.	0733
Mechler, E. A.	0734, 0953
Megav E. D.	0736
Mehr, E.	0742, 0743
Mehr, M. H.	0737, 0738, 0739, 0740, 0741, 0742, 0743
Meissen, R.	0143
Meissinger, H. F.	0070, 0071
Meister, D.	0744, 0745
Mellen, D. L.	0367
Mendez, A. J.	0746
Mengelkoch, R. F.	0747
Meulders, M.	0234
Meyer, A. U.	0748
Meyer, C. H.	0749
Michalski, A.	0750
Mihevic, P. M.	0351
Miller, B.	0751
Miller, D. C.	0263, 0752, 0753, 0754
Miller, D. P.	0496
Miller, G. K., Jr.	0755, 0756
Miller, J. M.	0757, 0758, 0759, 0760
Miller, J. S.	0761
Miller, J. T.	0190
Miller, T. P.	0762
Mills, R. G.	0763
Milnes-Walker, N. D.	0764
Milton, J. L.	0765
Minderaa, R. B.	0104
Mintz, M.	1109, 1110
Mirabella, A.	0766
Mirchandani, P. B.	0767
Mitchell, M. B.	1166, 1167
Mitrani, L.	0768, 0769
Mligan, J. R.	1041
Molchany, J. W.	0054, 0648, 0770, 0771, 1058
Monk, D. L.	1009
Monseur, M.	0772

Monty, R. A.	0773, 0774
Mooij, H. A.	0775
Moore, G. P.	0732
Moore, M. K.	0776
Moray, N.	0777, 0778, 0779
Morehouse, L. E.	0780
Morgan, M. J.	0781, 0782, 0783, 1161
Morgan, R. L.	0921
Morizumi, N.	0784
Morony, W. F.	0785
Moroz, B.	0750
Morrie, L. W.	1117
Morrill, C. S.	0786
Morris, E. J.	0663
Morris, N. M.	0787, 0788
Morrison, T. R.	0353, 0354
Mortimer, R. G.	0541, 0789
Moskowitz, H.	0052
Mounoud, P.	1139
Mountcastle, V. B.	0790
Mourant, R. R.	0791
Mowbray, H.	1147
Muckler, F. A.	0792, 0793, 0827, 0828, 0829
Muller, K. E.	0078, 1032
Muller-Limmroth, W.	0015, 1072
Munsch, J.	0847
Murphy, B. J.	0586, 0794
Murphy, D. P.	0033
Murphy M. R.	0100
Murrell, J. F.	0795
Myasnikov, V. I.	0796
Myhre, L. G.	0826
Myslobodsky, M.	1110

## N

Nachson, A.	1187
Nagamachi, M.	0538
Nagasawa, Y.	1123
Nagel, J. A.	0471
Nagumo, J.	0797
Nair, N. V.	0870
Nakamizo, S.	0592
Narasimhan, R.	0076
Nason, W. E.	0158
Navon, D.	0355, 0356, 0357, 0358, 0799
Neilson, M. D.	0800
Neilson, P. D.	0800
Nelson, C. L.	0801
Netch, A.	1246
Netick, A.	0581
Nevins, J. L.	0802

Newcomb, F. N.	0803
Newsom, T. J.	0804
Newsome, W. T.	0254
Newton, J. M.	0805
Nichols, N. R.	0499
Nicholson, R. M.	0806
Nicola, J. F.	0807
Nishida, T.	0808
Nitzberg, D.	1156
Noah, J. C.	1071
Noble, C. E.	0384, 0809, 0810, 0811
Noble, C. S.	0809
Noble, M. E.	0812, 0813, 0814, 0815, 1116
Noda, A.	0797
Noll, A. M.	0816, 0817
Norman, D. A.	0266, 0818
North, J. D.	0819
North, R. A.	0359, 0360, 0395, 0396, 0820, 0821
Notterman, J. M.	0822, 0823, 0824
Nowak, E.	0825
Nunnely, S. A.	0826
Nurnberger, J.	1013

## O

O'Leary, A.	0830, 1157
O'Mara, P. A.	0648, 0834, 0835, 0891, 1059
O'Neill, W. D.	0839
Obermaier, J. E.	0773
Obermayer, R. W.	0827, 0828, 0829
Ochs, A. L.	0943
Offenstein, R. E.	0874
Ohlbaum, M.	0373
Olken, F.	0831
Olster, G. J.	0655
Olson, B. A.	0832
Olson, J. W.	1229, 1231
Olson, P. L.	0833
Olson, W. P.	1069
Ong, J.	0836
Ono, H.	0760
Optician, L. M.	0837
Orlansky, J.	0838
Osafo, C.	0839
Ostroff, A. J.	0840
Otero, J. E.	0571
Owens, J. M.	0395, 0396, 0710
Oxendine, H. B.	0841

# P

Pachter, M.	0842
Padilla, C. S.	0843
Page, D. E.	0822
Parrish, R. V.	0038, 0844
Parrott, E. L.	0845
Pass, H. L.	0846
Paterson, D.	0244
Patterson, R. P.	0847
Payne, R.	0262
Payne, R. B.	0241, 0451, 0452, 0848, 0849, 1234
Peacock, J. B.	0850
Pearson, P.	0851
Pearson, R. G.	0852
Pence, G. G.	1037
Penetar, D. N.	0054, 0853, 0854
Pennington, J. E.	0855
Peppard, L. E.	0366
Perdices, M.	0219
Perkins, T.	0871, 0872
Perriment, A. D.	0856
Perry, B. L.	0857, 0858
Petersen, H. E.	0859
Peterson, J. R.	0860
Pew, R. W.	0019, 0861, 0862, 0863, 0864, 0865, 0866
Phatak, A. V.	0072, 0512, 0513, 0514, 1180
Phillips, R. S.	0499
Pieper, K. S.	1032
Pierce, B.	1204
Pierce, J. R.	0867
Pitkin, E. T.	0868, 1138
Pivik, R. T.	0524, 0869, 0870
Planchard, J. A.	0871, 0872, 0873
Plath, D. W.	0874
Platzer, H. L.	0875
Plummer, R. W.	0573
Poirer, J. H.	0876
Pola, J.	0877, 1236, 1237, 1238
Pope, L. T.	0878
Poppelbaum, W. J.	0615
Post, R. B.	0879, 0880
Potter, A. G.	0881
Potvin, A. R.	0019
Poulton, E. C.	0882, 0883, 0884, 0885, 0886, 0887, 1014, 1104
Povenmire, H. K.	0888
Powell, J. D.	0233
Pracher, J. M.	0889
Prah, J. D.	0078
Preston, B.	0890
Preston, M. G.	0734, 0953
Pribyl, V. J.	0891
Price, D. L.	0892

Price, D. R.	0893
Price, M. D.	0850
Privoznik, C. M.	0894
Proctor, L. R.	0436
Promisel, D.	0107
Prosin, D. J.	1166, 1167
Psiaki, M. L.	0898
Putchat, C.	0703, 0704
Putnam, T.	0280
Putz, V. R.	0899, 0900, 1030
Pyykko, I.	0966

## Q

Queen, J. E.	1037
--------------	------

## R

Rabida, G.	0246
Rajan, N.	0407
Ramsden, B.	0219
Ramsey, J. D.	0902
Ranalli, P. J.	0903
Rawlings, E. I.	0904, 0905
Rawlings, I. L.	0904, 0905
Rawson, E. H.	0972
Raymond, J. E.	0906
Reed, D. J.	0130
Reed, J. D.	0907, 0908
Reeder, J. P.	1200
Regan, J. R.	0909
Reiche, D.	0910
Reid, L. D.	0911
Repa, B. S.	0912
Repperger, D. W.	0315, 0913, 0914
Reschke, M. F.	1090
Reynolds, P.	0025
Richards, S.	0777
Richens, A.	0096
Rigler, D.	0303
Riley, D. R.	0503, 0755, 0756
Ritchie, M. L.	0915, 0916
Ritter, M.	0258
Robinson, D. A.	0058, 0673, 0749, 1111
Robinson, G. H.	0619, 0801, 0917
Rockway, M. R.	0918, 0919, 0920, 0921, 0922
Rockwell, T. H.	0053, 0332, 0791
Rodenburg, M.	0295
Roenker, L.	0590
Rogers, J. G.	0923, 0924, 0925, 0926
Rohrman, R. A.	0927



Roland, R. D.	1001
Rolfe, J. M.	0079, 0454, 0928
Romanczyk, K. C.	0840
Ronco, P. G.	0929
Roos, R. A.	0104
Root, C. M.	0930
Roschke, E. J.	0325
Roscoe, S. N.	0082, 0215, 0294, 0460, 0485, 0486, 0487, 0519, 0520, 0604, 0888, 0931, 0932, 0933, 0934, 0935, 0964, 1085, 1131
Rose, D. J.	0906
Rose, E.	0692
Rose, R. E.	0070, 0071, 1108
Rose, S.	0936
Rosenberg, B.	0937, 0938
Rosenberg, B. A.	0939
Rosenberg, B. L.	0940
Rosenquist, H. S.	0441, 0941
Rosenthal, M.	0942
Ross, D. E.	0943
Rossman, E.	0936
Roth, K. H.	0944
Roth, W. T.	0945
Rothe, R.	0899
Rothenberg, S. J.	0946, 0947
Rothwell, D.	0062
Rotsztein, Y.	1007
Roucoux, A.	0948
Roucoux, M.	0948
Rouse, W. B.	0787, 0788, 0949
Rowlands, G. F.	0369
Ruby, W. J.	0773, 0774
Ruehmann, H.	0950
Ruff, C.	0688
Ruhmel, D. B.	0623
Rule, R. G.	0074, 0951
Rund, P. A.	0952
Russell, J. B.	0734
Russell, J. R.	0953
Russell, W. R.	0954, 0955, 1020, 1021
Ryden, T.	0956
Ryzhov, B. N.	0796

## S

Sacchetti, E.	1024
Sachs, D. A.	0957
Sage, G. H.	0958
Sahara, K.	1246
Sainitsky, V. P.	0796
Saito, Y.	0589
Sakata, H.	0959

Salazar, O. G.	0811
Salisbury, L.	0196
Sameshima, M.	0960, 1243, 1244
Samn, S.	1050
Sampson, P. B.	0339, 0373, 0733, 0961
Sanders, A. F.	0813
Sanford, J.F., III	1071
Sasaki, M.	0544, 0545
Sathaye, S.	0170, 0593
Sato, S.	0797
Saul, E. V.	0962
Savage, R. E.	0963
Scanlan, L. A.	0177, 0964
Scarone, S.	0965
Schalen, L.	0966
Schaumann, J. L.	0967
Schieber, M. H.	0968
Schmid-Burgk, W.	0969
Schmidt, K. H.	0970
Schmidt, R. A.	0265, 0971
Schneider, R. H.	0049, 0273
Schohan, B.	0972, 1042
Schopper, A. W.	0696
Schori, T. R.	0973, 0974, 0975
Schroeder, D. J.	0976, 0977, 0978
Schulman, P.	1157
Schultheis, L. W.	0058
Schuster, C. R.	0030
Schuster, D. H.	0525
Sclater, N.	0979
Scottenfeld, S.	0946
Scupert, C. L.	0880
Seacord, C. L.	0980, 0981
Searle, L. V.	0982, 0983
Seckel, E.	0984
Sedgwick, H. A.	0291, 0437
Seeley, H. F.	0985
Seidenstein, S.	0986
Selkoe, D.	0946, 0947
Senders, J. W.	0719, 0987, 0988, 0989, 0990, 0991, 0992, 0993, 0994
Shackel, B.	0995
Shaffer, D. A.	1149, 1150, 1153
Shannon, R. H.	0996
Shapiro, K. L.	0906
Sharma, S.	0052
Sharpe, J. A.	0903
Shectman, F.	1151
Shefer, J.	0997
Shelly M. W.	0712
Shepard, R. N.	0280
Sheridan T. B.	0587, 0998, 0999, 1000, 1001, 1002, 1003, 1004
Sherlock, J. F.	1005
Shibutani, H.	0959
Shields, R. H.	1006

Shinar, J.	0279, 1007
Shirachi, D. K.	1008, 1009
Shirley, R. S.	1008, 1010
Siever, L. J.	1011, 1012, 1013
Silverman, S. M.	1152, 1153, 1154
Simmonds, D. C. V.	1014
Simon, C. W.	1015, 1016, 1223
Simons, R. F.	1017
Sinaiko, H. W.	1018
Singleton, W. T.	1019
Sivier, K. R.	0082
Sjoberg, S. A.	0955, 1020, 1021
Skelley, C. S.	0813
Skolnick, A.	1022
Slack, C. W.	1023
Smeraldi, E.	1024
Smiles, K. A.	1025
Smist, T. E.	0225
Smith, A. T.	0093
Smith, H. J.	1026
Smith, K. U.	0539, 0540, 1027, 1028, 1029, 1030
Smith, M. J.	1031
Smith, M. V.	1032
Smith P.	0059
Smith, R. H.	1033
Smith, R. L.	1034, 1035, 1036, 1037
Snider, H. L.	0370
Snyder, D. L.	1038
Sobell, M. B.	1140
Soede, M.	1039
Soliday, S. M.	0972, 1040, 1041, 1042
Solomon, C. M.	1043
Solowks, E. N.	0911
Soma, T.	1044
Sommer, R. W.	0214
Souder, M. A.	1045
Southard, D. L.	0560, 0561
Spangler, R. S.	1046
Speck, J. P.	0199
Speight, L. R.	1047
Spencer, R. A.	1048
Sperandio, J. C.	1049
Sperling, H. G.	0719
Speyer, J. L.	1050
Spohn, H. E.	1051
Spragg, S. D. S.	0032, 0033, 0339
Spray, J.	1051
Stager, P.	0620, 1052
Staires, M. K.	1053
Stambler, I.	1054
Stammers, R. B.	1055
Stamper, D. A.	0054, 0648, 0770, 0771, 0834, 0835, 1056, 1057, 1058, 1059
Stark, L.	0236, 1060, 1251

Stassen, H. G.	1039
Stave, A. M.	1061
Stedman, M. E.	0085, 1062
Steeb, R.	0318
Stein, A.	1063
Steinbach, M. J.	0760, 1064
Steiner, S.	0237
Steinman, R. M.	0221, 0586, 0597, 0598, 1228
Stelmach, G. E.	1065
Stern, L. D.	1066
Sterner, R. T.	1067
Stevenson, J.	1068
Stockwell, C. W.	0347
Stoddard, R. D.	1069
Stolz, W.	0685
Stone, L. W.	1070
Storm, W. F.	0075, 1071
Strasser, H.	0015, 1072
Streimer, I.	1073
Stribley, R. F.	0826
Strickland, Z.	1074
Strieb, M. I.	0349, 0625
Struckman-Johnson, D. L.	1088
Strudwick, P. H.	0556
Stuck, B. E.	1057
Sturgis, S. P.	0789
Suggs, C. W.	1075
Sugie, N.	1076
Sullivan, D. J.	0745
Sumi, S.	1077
Summers, W. C.	0914
Sumners, L. G.	1108
Sun, J.	1078
Sussman, D. E.	0002
Sussman, E. D.	1079
Sussman, H. M.	0685, 1080, 1081, 1082, 1083
Suzuki, D. A.	0707, 1084
Suzuki, Y.	1244
Swartz, W. F.	0827
Swartzendruber, L.	1085
Sweeney, J. A.	0161
Sweeney, J. S.	0370, 0419, 1086, 1087
Swierenga, S. J.	1088
Sword, A. J.	0415
Swtzer, J. V.	0900
Synnock, G.	0777

## T

Tachi, S.	1091
Takabe, M.	1091
Takahashi, M.	1089, 1091

Tamminga, E. P.	1127
Tangney, J. F.	0220
Tanie, K.	1091
Tauber, E. S.	1092
Taylor, F. V.	0094, 0095, 0172, 1093
Taylor, J. L.	0762
Taylor, L. W., Jr.	1094
Teichgraber, W. M.	0406, 1095
Teichner, W. H.	1096
Tejmar, J.	1097
Thach, W. T.	0968
Thackray, R. I.	1998
Theriot, L.	1194
Thieman, T. J.	0666
Thomas, J. R.	1999
Thomas, R. E.	1100, 1101
Thomas, T.	0956
Thompson, J. E.	0461, 0462, 0463
Thompson, R. R.	0833
Thordarsen, H.	0682
Thornton, C. L.	0059
Thorsheim, H. I.	1102
Thorton, G. B.	1103
Tickner, A. H.	0386, 0388, 0389, 0390, 1104
Tinklenberg, J. R.	0762
Tipton, C. L.	0952, 1105
Tobias, L. W.	0282
Todosiev, E. P.	1106, 1107, 1108
Togers, D. B.	0913
Tole, J.	0631
Tomer, R.	1109, 1110
Tomlinson, R. D.	1111
Tomlinson, R. W.	1112
Toone, B.	0004
Tou, J. T.	1101
Touchstone, R. M.	1998
Tourtellotte, W. W.	0019
Treichel, C. W.	1247
Treisman, A. M.	1113
Trier, A. O.	1114
Troost, B. T.	0043
Truijens, C. L.	1115
Trumbo, D. A.	0814, 1115, 1116
Tsang, P. S.	1205
Tuason, V. B.	0481
Tufano, D. R.	0823, 0824
Turksen, B.	0779
Turnbull, D. F.	0782
Turner, P. E.	1117
Turnipseed, G. T.	0378
Turvey, M. T.	0306, 1118
Tychsen, I.	0663
Tychsen, L.	1119

## U

Udolph, R.	1120
Ueda, Y.	0706
Unwin, E. A.	0111
Utsuki, N.	1123

## V

Vacroux, A. G.	0627
Vallerie, L. L.	1124
Van Assen, A.	1125
Van den Berg, A. V.	1126
Van der Steen, J.	1127
Van der Vaart, J. C.	0448, 1128
Van der Wildt, G. J.	0295
Van Patten, R. E.	0315, 0913
Van Schaik, P. N.	1129
Vanasse, L.	1203
Vandenberg, J. D.	1130
VanderKolk, R. J.	1131
Vangool, M. F. C.	1132, 1133
Vartabedian, A. G.	1134
Vaughan, H. G.	0608
Vaughan, W. S., Jr.	1135, 1136
Verdi, A. P.	1137
Vince, M. A.	0212
Vinje, E. W.	0868, 1138
Vinz, F. L.	0695
Viviani, P.	1139
Vogel-Sprott, M. D.	0066
Voor, J. H.	0666
Voss, H. A.	0077
Vuchinich, R. E.	1140

## W

Waag, W. L.	0996
Wade, M. G.	0265
Wadhera, N.	0170, 0593
Wagenaar, W. A.	1115, 1141
Walker, N. K.	0245, 0246, 1142, 1143, 1144, 1145, 1146, 1147, 1148, 1149, 1150, 1151, 1152, 1153, 1154
Wall, R. L.	0379
Wallace, B.	1155
Wallach, H.	0041, 0830, 1156, 1157
Wallach, H. C.	1158, 1159
Walsh, W. P.	0761
Ward, F. E.	1160

Ward, G. R.	0630
Ward, R.	1161
Ward, S. L.	0788, 0913
Wardrip, S. C.	1162
Ware, J. R.	1163
Wargo, M. J.	0556, 1164, 1165, 1166, 1167
Waring, W.	1168
Warner, H. D.	1169
Warner, N. W.	0399
Warren, C. E.	0812
Warren, M. W.	1170
Warren, R. D.	1171
Warrick, M. J.	1172
Wasaff, C. R.	1173
Wasserman, W. L.	1174
Waterton, K.	0779
Watson, B. L.	1175
Watson, D.	0688
Watt, R. J.	0781, 0783
Way, T. C.	1176
Webber, C. E.	0012, 1177
Webster, R. B.	0829
Weener, E. F.	1178
Wei, K. C.	1179
Weir, D. H.	0729, 0984, 1180
Weiss, B.	0034, 1181, 1182, 1183, 1184
Weisz, A. Z.	1185
Welford, A. T.	0342, 1186
Weltman, G.	0318, 1187
Wempe, T. E.	1188, 1189
Wertheim, A. H.	0235, 1190
West G.	0509, 0510
Westbury, J. R.	1083
Westheimer, G.	1191
Wetzel, P. A.	0565
Wheeler, L.	0271, 0272
Wherry, R. J.	0625
Wherry, R. J., Jr.	0349
Whitaker, L. A.	1192
White, C. W.	1193
White, P. R.	0695
Whitehouse, G. D.	1194
Whitehurst, M.	1195
Whitfield, D.	1196
Whitney, D. E.	1197, 1198, 1199
Whitten, J. B.	1200
Wickens, C. D.	0117, 0226, 0311, 0569, 0603, 1201, 1202, 1203, 1204, 1205
Wickens, D. D.	1206
Wiener, E. L.	0126, 1207
Wierwille, W. W.	1208, 1209, 1210, 1211, 1212, 1213
Wilberg, R. B.	0314
Wilkerson, H. R.	0384, 0811, 1214
Wilkinson, R. T.	0369

Willen, T. B.	1215
Williams, A. C.	0537
Williams, A. C., Jr.	0294, 1216
Williams, J.	1135
Williams, J. R.	0633
Williams, L. R.	1217
Williams, L. R. T.	1218
Williams, P. R.	1219
Williams, R. A.	1220
Williams, R. D.	0520
Williges, B. H.	0205, 0294, 0361, 0362, 0460 0963, 1221
Williges, R. C.	0176, 0204, 0361, 0362, 0483, 0484, 0485, 0486, 0487, 0763, 0933, 0934, 0935, 0963, 0964, 1085, 1221, 1222, 1223
Wilson, R. V.	0455, 1224, 1225
Winblade, R.	1252
Wingert, J. W.	0523
Wingrove, R. C.	0257, 1226
Winter, D. C.	1227
Winter, R.	0251
Winterson, B. J.	1228
Wolf, J. D.	0720
Wolfe, J. W.	0274, 0275, 1229, 1230
Wong, E.	0681
Wong, P. S.	0161
Wood, C. J.	1231
Wooler, J.	1232
Wright, B. M.	1233, 1234
Wulfeck, J. W.	0123, 1037, 1235
Wurtz, R. H.	0254
Wyatt, H. J.	0877, 1236, 1237, 1238

## Y

Yakimoff, N.	0698
Yamashita, M.	0544
Yamashita, T.	0960, 1240, 1241, 1242, 1243, 1244
Yavin, Y.	0842, 1245
Yepishkin, A. K.	0570
Yilk, M. D.	0905
Yin, Y. K.	1246
Young, L. L.	1247
Young, L. R.	0565, 1248, 1249, 1250, 1251, 1252
Young, M. L.	1253

## Z

Zacharias, G. L.	1254
Zavala, A.	0316
Zee, D. S.	0542, 0645, 0837
Zeevi, Y. Y.	0565



Ziegler, P. N.	1255, 1256
Zinn, W.	0746
Zohr, D.	1257
Zubrick, S. R.	0097
Zwick, H.	0100, 0891

# **SUBJECT INDEX**

## **ACCELERATION**

0164, 0165, 0179, 0944, 0976, 0977, 0978, 1020, 1025, 1093, 1104, 1122, 1230

## **ACCURACY**

0048, 0100, 0138, 0201, 0368, 0505, 0506, 0507, 0543, 0612, 0765, 0908, 0909, 1141, 1142, 1149, 1152, 1184

## **ACUITY**

0040, 0132, 0353, 0354

## **ADAPT, ADAPTING, ADAPTATION**

0036, 0041, 0072, 0132, 0156, 0205, 0216, 0217, 0262, 0263, 0266, 0348, 0361, 0362, 0364, 0525, 0548, 0549, 0555, 0557, 0585, 0627, 0636, 0658, 0700, 0702, 0715, 0717, 0718, 0754, 0787, 0818, 0837, 0870, 0923, 0999, 1155, 1163, 1165, 1173, 1221, 1249, 1250

## **AGE, AGE RELATED**

0092, 0251, 0810, 1072

## **AID, AIDED**

0109, 0173, 0238, 0292, 0301, 0366, 0501, 0546, 0580, 0632, 0734, 0787, 0876, 0923, 0953, 0983, 1162

## **ALCOHOL**

0002, 0052, 0055, 0066, 0173, 0688, 0762, 0789, 0977, 0978, 1079, 1140

## **ANALYSIS**

0018, 0021, 0047, 0057, 0068, 0076, 0126, 0186, 0267, 0374, 0381, 0407, 0535, 0624, 0697, 0721, 0746, 0879, 0889, 0910, 1000, 1029, 1094, 1099, 1100, 1142, 1164, 1166, 1203, 1213, 1229, 1241, 1242, 1244

## **ANTIDEPRESSANT**

0258

## **ARTIFICIAL**

0518

## **ASSESSMENT**

0117, 0274, 0275, 0349, 0395, 0666, 0762, 0965, 1114, 1165, 1222

## **ATROPINE**

0500, 0853, 0854

## **ATTENTION**

0004, 0025, 0092, 0151, 0162, 0181, 0300, 0305, 0359, 0622, 0702, 0724, 0790, 0821, 0869, 0878, 0900, 1013, 1052, 1113, 1204, 1205

## **AUDITORY**

0230, 0422, 0423, 0461, 0462, 0463, 0525, 0541, 0764, 0767, 0809, 0878, 0900, 1068, 1082, 1152, 1153, 1167

## **AXIS**

0029, 0070, 0201, 0227, 0309, 0310, 0311, 0404, 0694, 0737, 0741, 0767, 0893, 0896, 1008, 1108

## **BEHAVIOR, BEHAVIORS**

0005, 0011, 0012, 0072, 0076, 0099, 0103, 0267, 0363, 0377, 0454, 0457, 0458, 0459, 0559, 0607, 0713, 0714, 0752, 0753, 0757, 0778, 0784, 0800, 0829, 0884, 0911, 0960, 0982, 0983, 0987, 1027, 1030, 1093, 1128, 1177, 1240, 1241, 1242, 1243, 1244, 1253

## **BIBLIOGRAPHY**

0031, 0204, 0556, 0773, 0793, 0929, 0937, 0938

## **BIOMEDICAL**

0834

## **BIPOLAR**

0475, 0652

## **CARBON MONOXIDE**

0078, 0900

## **CHARACTERISTIC, CHARACTERISTICS**

0001, 0015, 0073, 0116, 0221, 0259, 0261, 0262, 0270, 0640, 0644, 0660, 0667, 0706, 0797, 0856, 0881, 0955, 0982, 0999, 1009, 1073, 1091, 1250, 1253

## **CIRCADIAN**

0134, 0136

## **CLOSED, CLOSED-LOOP**

0009, 0453, 0624, 0675, 0686, 0697, 0779, 1171, 1213, 1237

## **COMPARISON, COMPARISONS**

0029, 0088, 0093, 0146, 0171, 0208, 0209, 0223, 0258, 0315, 0319, 0324, 0439, 0461, 0462, 0463, 0479, 0480, 0496, 0497, 0516, 0569, 0621, 0742, 0743, 0762, 0765, 0779, 0844, 0868, 0894, 1088, 1103, 1127, 1240, 1256

## **COMPENSATORY**

0005, 0032, 0051, 0062, 0078, 0079, 0080, 0108, 0109, 0171, 0183, 0313, 0366, 0379, 0385, 0406, 0412, 0444, 0445, 0495, 0497, 0510, 0533, 0534, 0536, 0537, 0540, 0594, 0595, 0621, 0692, 0694, 0752, 0753, 0764, 0774, 0804, 0813, 0815, 0829, 0872, 0899, 0960, 0985, 0991, 0994, 1008, 1015, 1032, 1034, 1062, 1087, 1091, 1095, 1128, 1137, 1138, 1175, 1240, 1242

## **CONTINUOUS**

0095, 0362, 0461, 0462, 0463, 0581, 0589, 0627, 0656, 0657, 0704, 0712, 0783, 0815, 0827, 0863, 1257

## **CONTROL (In General)**

0005, 0014, 0015, 0016, 0017, 0029, 0031, 0033, 0034, 0047, 0048, 0053, 0058, 0064, 0067, 0072, 0080, 0081, 0086, 0088, 0091, 0094, 0095, 0104, 0105, 0115, 0116, 0119, 0120, 0125, 0146, 0149, 0163, 0168, 0172, 0178, 0179, 0183, 0184, 0196, 0199, 0204, 0208, 0210, 0211, 0212, 0213, 0214, 0215, 0227, 0233, 0256, 0262, 0304, 0308, 0309, 0309, 0311, 0317, 0318, 0321, 0322, 0324, 0338, 0339, 0340, 0341, 0343, 0352, 0363, 0364, 0365, 0372, 0376, 0377, 0380, 0386, 0400, 0411, 0413, 0417, 0418, 0444, 0445, 0449, 0465, 0490, 0493, 0505, 0506, 0514, 0516, 0527, 0550, 0551, 0584, 0585, 0587, 0591, 0697, 0598, 0604, 0612, 0614, 0616, 0617, 0620, 0621, 0632, 0633, 0646, 0647, 0658, 0659, 0665, 0667, 0675, 0684, 0688, 0690, 0695, 0697, 0703, 0709, 0713, 0715, 0720, 0721, 0722, 0723, 0729, 0737, 0740, 0741, 0742, 0743, 0761, 0765, 0775, 0778, 0787, 0793, 0796, 0805, 0806, 0815, 0827, 0828, 0838, 0840, 0847, 0855, 0862, 0874, 0881, 0882, 0896, 0898, 0904, 0906, 0908, 0909, 0917, 0918, 0922, 0926, 0927, 0950, 0954, 0970, 0971, 0980, 0981, 1001, 1002, 1003, 1004, 1015, 1019, 1020, 1021, 1022, 1028, 1044, 1047, 1048, 1062, 1063, 1076, 1084, 1089, 1097, 1103, 1104, 1105, 1112, 1129, 1136, 1143, 1145, 1159, 1169, 1173, 1176, 1180, 1181, 1182, 1189, 1190, 1197, 1197, 1198, 1206, 1215, 1244

### **- CONTROL-DISPLAY**

0114, 0137, 0168, 0187, 0188, 0800, 0919, 0920, 0921

### **- CONTROLLER**

0056, 0057, 0082, 0206, 0246, 0249, 0263, 0281, 0348, 0404, 0503, 0591, 0624, 0754, 0860, 0889, 0892, 0894, 0955, 0989, 0990, 0999, 1039, 1100, 1185

### **- MANUAL CONTROL**

0021, 0022, 0036, 0069, 0070, 0103, 0153, 0193, 0203, 0260, 0292, 0395, 0402, 0494, 0512, 0518, 0540, 0556, 0589, 0628, 0649, 0650, 0656, 0657, 0660, 0719, 0726, 0804, 0818, 0829, 0886, 0887, 0986, 0993, 1033, 1038, 1101, 1189, 1201, 1211, 1249, 1251, 1252, 1256

## **CRITICAL**

0023, 0496, 0512, 0513, 0514, 0717, 0868, 0914, 1068

## **CUES**

0123, 0180, 0460, 0541, 0694, 0756, 0893, 1248

## **CUTANEOUS**

0337, 0422, 0973, 0974, 1091

## **DAMPING**

0660, 0803, 0915, 1200

## **DATABASE**

0831

## **DECISION**

0103, 0193, 0576, 0632, 0772, 1003, 1101

## **DEGREE**

0081, 0466, 0572, 0719, 0989, 0990

## **DEPRIVATION**

0198, 0399

## **DETECT**

0132, 0285, 0483, 0484, 0569, 0784, 0859, 0899, 0964, 1096, 1135, 1202

## **DIFFERENCE**

0062, 0092, 0101, 0117, 0201, 0225, 0326, 0438, 0452, 0472, 0600, 0630, 0824, 0849, 1099, 1117, 1233, 1234

## **DIMENSION**

0168, 0172, 0248, 0348, 0400, 0444, 0445, 0461, 0462, 0463, 0510, 0590, 0615, 0649, 0650, 0739, 0748, 0766, 0786, 0795, 0991, 1009, 1023, 1125, 1130, 1139, 1242

## **DIRECTION**

0126, 0168, 0254, 0338, 0670, 0736, 0926, 1090, 1097

## **DISCRIMINATE**

0900, 1216

## **DISPLACEMENT**

0207, 0535, 0598, 0702, 1182

## **DISPLAY**

0031, 0034, 0064, 0079, 0088, 0113, 0114, 0137, 0153, 0158, 0167, 0168, 0169, 0188, 0230, 0282, 0296, 0298, 0299, 0307, 0309, 0310, 0311, 0345, 0365, 0385, 0413, 0422, 0449, 0460, 0461, 0462, 0463, 0485, 0486, 0487, 0496, 0497, 0517, 0520, 0552, 0576, 0615, 0616, 0617, 0634, 0646, 0647, 0650, 0672, 0719, 0720, 0742, 0767, 0777, 0786, 0797, 0800, 0815, 0827, 0857, 0862, 0868, 0901, 0915, 0919, 0920, 0921, 0925, 0931, 0933, 0934, 0935, 0952, 0964, 0985, 0992, 1005, 1008, 1016, 1034, 1041, 1068, 1069, 1085, 1103, 1124, 1131, 1134, 1135, 1158, 1167, 1206, 1219, 1225, 1227, 1235

## **DISTORTION**

0026, 0122

## **DOWN SYNDROME**

0566, 0567

## **DRIVE, DRIVING, DRIVEN**

0074, 0181, 0238, 0244, 0253, 0283, 0284, 0417, 0420, 0588, 0675, 0676, 0721, 0722, 0772, 0789, 0791, 0890, 0895, 0911, 0916, 0951, 0998, 1074, 1213, 1232

## **DRUG**

0006

## **DUAL**

0117

## **DYNAMIC**

0001, 0016, 0021, 0021, 0022, 0057, 0172, 0181, 0190, 0198, 0257, 0261, 0262, 0278, 0309, 0310, 0311, 0324, 0353, 0354, 0455, 0483, 0484, 0491, 0501, 0569, 0604, 0607, 0638, 0659, 0673, 0727, 0728, 0731, 0748, 0754, 0787, 0788, 0827, 0839, 0858, 0917, 0960, 0984, 0988, 1000, 1007, 1100, 1138, 1178, 1180, 1202, 1205, 1208, 1210, 1211, 1212, 1215, 1250, 1255

## **DYSFUNCTION, DYSFUNCTIONS**

0313, 0430, 0435, 0471, 0641, 0653, 0654, 0662, 0870, 1043

## **EEG (ELECTROENCEPHALOGRAM)**

0480, 0594, 0595

## **EFFECT, EFFECTS**

0003, 0014, 0015, 0020, 0026, 0027, 0030, 0032, 0037, 0038, 0052, 0054, 0055, 0064, 0065, 0078, 0090, 0094, 0099, 0108, 0110, 0115, 0124, 0133, 0139, 0142, 0159, 0162, 0167, 0169, 0173, 0194, 0195, 0198, 0199, 0207, 0214, 0222, 0242, 0258, 0271, 0319, 0332, 0338, 0350, 0353, 0354, 0368, 0369, 0382, 0388, 0390, 0392, 0397, 0399, 0406, 0420, 0423, 0424, 0427, 0448, 0450, 0451, 0453, 0455, 0498, 0500, 0513, 0514, 0533, 0534, 0536, 0537, 0541, 0562, 0588, 0592, 0597, 0598, 0610, 0611, 0620, 0628, 0639, 0644, 0648, 0651, 0656, 0657, 0669, 0682, 0685, 0700, 0722, 0724, 0751, 0752, 0753, 0755, 0762, 0770, 0774, 0783, 0789, 0801, 0829, 0833, 0845, 0846, 0851, 0853, 0854, 0856, 0860, 0870, 0877, 0893, 0894, 0900, 0905, 0915, 0918, 0919, 0920, 0921, 0922, 0924, 0930, 0937, 0941, 0945, 0950, 0951, 0957, 0958, 0961, 0976, 0977, 0978, 0993, 1008, 1032, 1034, 1035, 1037, 1049, 1051, 1052, 1055, 1056, 1058, 1071, 1083, 1087, 1095, 1098, 1115, 1123, 1126, 1131, 1140, 1145, 1147, 1152, 1154, 1157, 1159, 1161, 1169, 1170, 1175, 1178, 1181, 1184, 1194, 1195, 1202, 1206, 1214, 1224, 1228, 1234, 1248



## **ENDURANCE**

0155

## **ERROR, ERRORS**

0083, 0216, 0217, 0270, 0393, 0406, 0736, 0766, 0871, 0873, 0883, 0996, 1035, 1123, 1131, 1183

## **EVALUATE, EVALUATION, EVALUATIONS**

0002, 0029, 0059, 0076, 0219, 0230, 0244, 0333, 0393, 0442, 0449, 0455, 0503, 0756, 0822, 0840, 0844, 0845, 0888, 0910, 0912, 1046, 1079, 1086, 1134, 1185, 1219, 1229, 1231

## **EYE**

0004, 0030, 0043, 0044, 0045, 0050, 0052, 0060, 0061, 0063, 0096, 0118, 0122, 0151, 0161, 0162, 0194, 0195, 0220, 0221, 0234, 0235, 0236, 0256, 0274, 0275, 0276, 0291, 0335, 0350, 0378, 0382, 0429, 0430, 0431, 0432, 0433, 0434, 0435, 0436, 0437, 0438, 0439, 0440, 0471, 0472, 0473, 0475, 0476, 0477, 0478, 0479, 0480, 0481, 0528, 0535, 0542, 0565, 0592, 0599, 0600, 0608, 0629, 0631, 0638, 0640, 0641, 0642, 0643, 0644, 0645, 0654, 0662, 0663, 0664, 0665, 0679, 0680, 0682, 0691, 0698, 0705, 0706, 0707, 0715, 0748, 0750, 0758, 0759, 0760, 0768, 0769, 0770, 0782, 0791, 0794, 0801, 0836, 0837, 0869, 0877, 0939, 0943, 0946, 0947, 0948, 0961, 0965, 0966, 0969, 0977, 1011, 1012, 1013, 1017, 1024, 1043, 1051, 1060, 1066, 1078, 1084, 1089, 1111, 1119, 1155, 1156, 1157, 1160, 1161, 1191, 1193, 1220, 1236, 1237, 1251

## **FEEDBACK**

0049, 0169, 0205, 0286, 0321, 0423, 0424, 0468, 0533, 0534, 0535, 0536, 0537, 0538, 0574, 0575, 0709, 0766, 0778, 0809, 0818, 0915, 0973, 0974, 1027, 1030, 1065, 1112, 1181, 1182, 1251

## **FIX, FIXED, FIXES**

0216, 0217, 0295, 0343, 0673, 0705, 0948, 1092

## **FLIGHT**

0016, 0017, 0082, 0156, 0157, 0192, 0257, 0266, 0281, 0344, 0346, 0352, 0374, 0446, 0454, 0485, 0486, 0487, 0520, 0604, 0711, 0821, 0832, 0888, 0931, 0932, 0933, 0934, 0935, 0954, 0955, 0972, 0980, 0981, 0984, 1020, 1021, 1026, 1040, 1042, 1070, 1086, 1200, 1216, 1226, 1247

## **FORCE**

0286, 0326, 0342, 0410, 0426, 0467, 0624, 0686, 0696, 0954

## **GUIDE, GUIDES, GUIDANCE**

0126, 0233, 0352, 0376, 0426, 0485, 0486, 0487, 0535, 0636, 0933, 0934, 0935, 1097, 1131, 1142

## **HAND**

0098, 0167, 0184, 0196, 0208, 0209, 0229, 0241, 0252, 0281, 0298, 0334, 0338, 0341, 0380, 0386, 0400, 0417, 0420, 0421, 0438, 0503, 0516, 0560, 0588, 0623, 0701, 0733, 0765, 0775, 0795, 0860, 0955, 1056, 1162, 1167, 1185, 1224

## **HEMISPHERE**

0181, 1109

## **HULL's THEORY**

0008

## **HUMAN (In General)**

0008, 0015, 0016, 0017, 0018, 0030, 0035, 0046, 0051, 0054, 0056, 0058, 0071, 0081, 0095, 0096, 0154, 0218, 0261, 0263, 0267, 0288, 0334, 0342, 0348, 0363, 0403, 0404, 0405, 0408, 0447, 0494, 0535, 0538, 0542, 0561, 0601, 0602, 0609, 0659, 0671, 0715, 0744, 0745, 0746, 0749, 0754, 0773, 0787, 0810, 0819, 0828, 0837, 0838, 0853, 0861, 0872, 0875, 0887, 0913, 0914, 0929, 0942, 0948, 0949, 0950, 0984, 0987, 0988, 0995, 0999, 1018, 1026, 1094, 1100, 1101, 1119, 1126, 1134, 1137, 1139, 1171, 1173, 1174, 1188, 1196, 1197, 1215, 1227, 1228, 1246

## **- HUMAN OPERATOR**

0001, 0064, 0067, 0070, 0072, 0073, 0076, 0127, 0166, 0193, 0203, 0204, 0206,  
0210, 0211, 0259, 0262, 0268, 0272, 0278, 0333, 0340, 0349, 0364, 0366, 0411,  
0511, 0515, 0578, 0579, 0585, 0625, 0697, 0731, 0739, 0839, 0862, 0868, 0989,  
0990, 1000, 1010, 1036, 1050, 1138, 1142, 1145, 1163, 1164, 1166, 1179, 1180,  
1208, 1209, 1210, 1211, 1212, 1213, 1250, 1254

## **- HUMAN PERFORMANCE**

0084, 0142, 0351, 0395, 0396, 0510, 0621, 0735, 0937, 1003, 1025, 1071, 1073,  
1106, 1107, 1108

## **IMAGE, IMAGES, IMAGING**

0189, 0190, 0255, 0401, 0636, 0746, 0904, 0932, 1117, 1227

## **ISOMETRIC**

0155, 0308, 0666, 1083, 1176

## **ISOTONIC**

1083

## **JOYSTICK**

0093, 0243, 0308, 0397, 0677, 0742, 0743, 0858, 0908, 0909, 1103

## **LAG**

0014, 0199, 0281, 0455, 1104

## **LEARN, LEARNED, LEARNING**

0009, 0010, 0015, 0123, 0130, 0317, 0318, 0328, 0379, 0541, 0572, 0574, 0626, 0708,  
0808, 0810, 0841, 0958, 0971, 1023, 1037, 1065, 1115, 1125, 1218, 1221

## **LEVER**

0146, 0182, 0214, 0343, 0633

## **LOCATION**

0135, 0138, 0139, 0769, 0877

## **LOOP**

0009, 0013, 0073, 0252, 0404, 0453, 0607, 0624, 0658, 0667, 0675, 0686, 0697, 0779, 1171, 1213, 1237

## **MANEUVER, MANEUVERS, MANEUVERING**

0177, 0178, 0676, 0677, 1141, 1200

## **MANUAL**

0001, 0021, 0022, 0036, 0069, 0070, 0088, 0103, 0153, 0193, 0203, 0260, 0292, 0331, 0343, 0352, 0395, 0402, 0472, 0494, 0518, 0538, 0540, 0550, 0551, 0556, 0589, 0604, 0627, 0649, 0650, 0656, 0657, 0660, 0685, 0704, 0718, 0726, 0729, 0737, 0741, 0742, 0743, 0804, 0818, 0886, 0887, 0923, 0986, 0993, 1033, 1038, 1062, 1073, 1075, 1087, 1101, 1139, 1176, 1189, 1201, 1213, 1248, 1249, 1250, 1252, 1253, 1256

## **MARIJUANA**

0052, 0945

## **MANIPULATE, MANIPULATION**

0005, 0024, 0105, 0215, 0287, 0317, 0355, 0356, 0360, 0361, 0402, 0415, 0618, 0619, 0684, 0986, 1002, 1187, 1197, 1198, 1199, 1216

## **MEASUREMENT**

0084, 0175, 0176, 0260, 0261, 0359, 0375, 0479, 0510, 0553, 0645, 0693, 0716, 0717, 0779, 0825, 1177, 1226, 1232

## **MODEL, MODELS, MODELING**

0001, 0036, 0046, 0051, 0056, 0067, 0069, 0070, 0071, 0072, 0110, 0117, 0147, 0166, 0203, 0204, 0256, 0274, 0275, 0278, 0304, 0340, 0348, 0364, 0404, 0515, 0568, 0585, 0605, 0606, 0607, 0619, 0688, 0715, 0724, 0727, 0730, 0732, 0779, 0780, 0839, 0844, 0861, 0872, 0949, 0963, 1003, 1004, 1076, 1163, 1179, 1180, 1194, 1211, 1212, 1213, 1246, 1251

## **MOTION**

0038, 0041, 0045, 0059, 0080, 0189, 0190, 0191, 0192, 0235, 0247, 0280, 0335, 0379, 0401, 0448, 0485, 0486, 0487, 0520, 0612, 0663, 0670, 0681, 0682, 0694, 0699, 0755, 0756, 0782, 0783, 0825, 0830, 0842, 0859, 0879, 0880, 0893, 0933, 0934, 0935, 1008, 1119, 1127, 1128, 1132, 1133, 1155, 1156, 1197, 1236, 1248

## **MOTIVATION**

0808, 0970

## **MOTOR**

0003, 0007, 0008, 0009, 0015, 0023, 0027, 0031, 0034, 0037, 0065, 0104, 0126, 0130, 0137, 0165, 0173, 0237, 0241, 0267, 0288, 0319, 0321, 0323, 0342, 0363, 0375, 0399, 0417, 0426, 0439, 0450, 0482, 0541, 0559, 0562, 0566, 0567, 0572, 0597, 0598, 0607, 0619, 0630, 0651, 0663, 0683, 0688, 0703, 0758, 0759, 0810, 0811, 0824, 0841, 0850, 0851, 0902, 0930, 0946, 0947, 0962, 0970, 0971, 1053, 1063, 1067, 1072, 1098, 1112, 1127, 1140, 1170, 1181, 1190, 1217, 1221, 1231, 1233, 1234, 1243, 1244

## **MOVEMENT, MOVEMENTS**

0043, 0045, 0047, 0049, 0050, 0063, 0087, 0096, 0097, 0118, 0122, 0133, 0138, 0161, 0162, 0194, 0202, 0220, 0221, 0234, 0235, 0236, 0256, 0274, 0275, 0276, 0314, 0326, 0335, 0338, 0342, 0350, 0380, 0382, 0429, 0431, 0432, 0433, 0437, 0439, 0444, 0445, 0470, 0472, 0479, 0528, 0560, 0565, 0592, 0599, 0600, 0608, 0619, 0628, 0629, 0631, 0633, 0638, 0641, 0642, 0643, 0644, 0644, 0662, 0663, 0664, 0679, 0680, 0682, 0690, 0691, 0698, 0701, 0705, 0706, 0707, 0715, 0721, 0733, 0750, 0758, 0759, 0760, 0768, 0769, 0782, 0791, 0794, 0836, 0837, 0869, 0879, 0903, 0939, 0946, 0947, 0948, 0966, 1078, 1080, 1084, 1089, 1111, 1119, 1139, 1156, 1157, 1160, 1161, 1183, 1191, 1193, 1220, 1236, 1247, 1251, 1253

## **NAVIGATION**

0527, 0695, 0931, 1040, 1131

## **NEUROMUSCULAR**

0686, 0728, 0732

## **OCULAR**

0041, 0055, 0058, 0295, 0481, 0704, 0708, 0837

## **OPERATOR**

0001, 0064, 0067, 0070, 0072, 0073, 0076, 0127, 0164, 0166, 0167, 0193, 0203, 0204, 0206, 0210, 0211, 0228, 0245, 0259, 0262, 0269, 0272, 0278, 0333, 0340, 0349, 0364, 0366, 0393, 0411, 0456, 0494, 0495, 0502, 0511, 0513, 0514, 0515, 0539, 0557, 0569, 0570, 0578, 0579, 0585, 0605, 0625, 0627, 0692, 0697, 0731, 0739, 0763, 0793, 0796, 0834, 0839, 0852, 0862, 0868, 0892, 0989, 0990, 1000, 1010, 1036, 1048, 1049, 1050, 1138, 1142, 1145, 1163, 1164, 1166, 1179, 1180, 1208, 1209, 1210, 1211, 1212, 1213, 1250, 1254

## **ORDER**

0170, 0250, 0316, 0365, 0475, 0476, 0485, 0486, 0487, 0966, 1012, 1024, 1043, 1105, 1201, 1257

## **PATH**

0108, 0830

## **PERCEIVED**

0159, 0681, 0906, 1236

## **PERCEPTION**

0031, 0034, 0041, 0110, 0128, 0194, 0202, 0235, 0291, 0319, 0375, 0426, 0437, 0439, 0448, 0482, 0635, 0651, 0688, 0699, 0758, 0759, 0782, 0830, 0879, 0902, 1017, 1045, 1064, 1081, 1113, 1140, 1156, 1161, 1243, 1244

## **PERFORMANCE**

0005, 0006, 0007, 0008, 0020, 0022, 0026, 0027, 0031, 0032, 0034, 0037, 0054, 0061, 0062, 0065, 0082, 0084, 0089, 0090, 0092, 0099, 0107, 0119, 0121, 0123, 0127, 0136, 0137, 0141, 0142, 0157, 0163, 0164, 0163, 0173, 0175, 0176, 0181, 0197, 0198, 0199, 0222, 0223, 0225, 0228, 0237, 0242, 0244, 0250, 0258, 0281, 0288, 0289, 0290, 0293, 0301, 0315, 0320, 0331, 0332, 0338, 0339, 0345, 0351, 0357, 0358, 0359, 0360, 0366, 0369, 0374, 0375, 0379, 0388, 0395, 0396, 0399, 0418, 0420, 0422, 0427, 0448, 0450, 0453, 0468, 0469, 0472, 0476, 0480, 0481, 0482, 0500, 0510, 0516, 0526, 0538, 0539, 0563, 0572, 0574, 0578, 0610, 0611, 0620, 0621, 0624, 0626, 0630, 0646, 0647, 0648, 0656, 0657, 0668, 0683, 0685, 0692, 0694, 0696, 0711, 0712, 0722, 0726, 0735, 0738, 0752, 0753, 0755, 0763, 0770, 0771, 0773, 0792, 0804, 0805, 0810, 0820, 0823, 0826, 0829, 0833, 0834, 0835, 0845, 0851, 0852, 0853, 0854, 0861, 0862, 0863, 0868, 0872, 0874, 0878, 0900, 0902, 0913, 0918, 0920, 0922, 0924, 0930, 0937, 0945, 0950, 0951, 0952, 0957, 0958, 0962, 0970, 0972, 0973, 0974, 0976, 0977, 0978, 0991, 0994, 0995, 1003, 1007, 1015, 1022, 1025, 1035, 1052, 1056, 1057, 1058, 1059, 1070, 1071, 1072, 1073, 1087, 1095, 1035, 1098, 1099, 1102, 1106, 1107, 1108, 1115, 1116, 1117, 1125, 1128, 1132, 1133, 1136, 1140, 1147, 1154, 1158, 1159, 1159, 1181, 1186, 1188, 1192, 1203, 1209, 1218, 1231, 1232, 1233, 1254, 1257

## **PERIPHERAL**

0240, 04685 0588, 0639, 0893, 0899, 0917, 1135, 1229

## **PERSONALITY**

0456, 1012

## **PILOT**

0013, 0017, 0035, 0038, 0071, 0120, 0222, 0226, 0256, 0261, 0315, 0373, 0381, 0405, 0482, 0505, 0506, 0507, 0577, 0667, 0716, 0730, 0757, 0784, 0855, 0894, 0972, 0984, 0996, 1042, 1061, 1131, 1132, 1133, 1175, 1178, 1215, 1226

## **POSITION**

0003, 0033, 0048, 0146, 0297, 0308, 0370, 0371, 0438, 0633, 0679, 0680, 0684, 0737, 0739, 0741, 0742, 0743, 0907, 1077, 1162

## **PRACTICE**

0003, 0015, 0027, 0250, 0293, 0316, 0383, 0567, 0572, 0611, 0823, 0932, 1055, 1056, 11657 1214

## **PREDICT, PREDICTION**

0043, 0045, 0127, 0157, 0220, 0223, 0227, 0293, 0302, 0316, 0374, 0494, 0495, 0552, 0640, 0656, 0711, 0739, 0763, 0821, 0823, 0949, 0963, 0983, 1036, 1076, 1209, 1235

## **PROPRIOCEPTION**

0011, 0265

## **PSYCHOLOGICAL**

0060, 0061, 0212, 0213, 0854, 0982, 0983, 1093, 1154, 1253

## **PSYCHOMOTOR**

0003, 0007, 0165, 0175, 0241, 0399, 0810, 0811, 0930, 1067, 1072, 1233, 1234

## **PSYCHOSIS**

0434, 0524, 1043

## **PURSUIT**

0001, 0020, 0027, 0028, 0043, 0045, 0046, 0054, 0055, 0060, 0061, 0062, 0100, 0118, 0122, 0129, 0130, 0134, 0140, 0148, 0154, 0161, 0162, 0186, 0234, 0235, 0237, 0254, 0256, 0274, 0275, 0276, 0279, 0280, 0289, 0290, 0291, 0294, 0300, 0320, 0328, 0329, 0350, 0371, 0382, 0383, 0384, 0389, 0390, 0392, 0397, 0405, 0416, 0423, 0429, 0431, 0432, 0433, 0437, 0439, 0465, 0470, 0472, 0476, 0477, 0479, 0481, 0495, 0524, 0532, 0547, 0586, 0606, 0608, 0620, 0621, 0626, 0631, 0638, 0644, 0645, 0648, 0652, 0653, 0663, 0668, 0673, 0679, 0680, 0681, 0682, 0685, 0696, 0698, 0706, 0707, 0708, 0727, 0749, 0750, 0755, 0758, 0759, 0760, 0764, 0768, 0769, 0770, 0771, 0808, 0809, 0812, 0815, 0835, 0837, 0842, 0853, 0869, 0870, 0880, 0882, 0903, 0904, 0905, 0941, 0946, 0947, 0948, 0957, 0958, 0969, 0991, 0994, 1009, 1011, 1012, 1015, 1017, 1024, 1051, 1056, 1057, 1058, 1066, 1067, 1070, 1077, 1078, 1082, 1084, 1089, 1102, 1109, 1110, 1119, 1126, 1127, 1139, 1157, 1158, 1160, 1161, 1163, 1191, 1193, 1195, 1217, 1220, 1228, 1229, 1236, 1237, 1240, 1245



## **RATE, RATES**

0064, 0068, 0145, 0327, 0328, 0426, 0453, 0469, 0716, 0780, 0829, 0982, 1085, 1104, 1115, 1162, 1197

## **RATIO**

0833, 0876, 0919, 0920, 0921, 1024

## **REACTION**

0247, 0481, 0639, 0710, 0801, 0856, 1052, 1125, 1167

## **REMOTE**

0014, 0024, 0105, 0178, 0179, 0215, 0287, 0304, 0317, 0370, 0415, 0684, 0695, 0986, 1002, 1198, 1199

## **REQUIRE**

0080, 0100, 0125, 0132, 0190, 0543, 0609, 0785, 0801, 0995

## **RESPONSE**

0013, 0016, 0021, 0022, 0023, 0035, 0043, 0045, 0048, 0083, 0085, 0151, 0154, 0177, 0207, 0214, 0218, 0259, 0268, 0269, 0335, 0403, 0414, 0418, 0446, 0447, 0544, 0545, 0565, 0588, 0619, 0704, 0723, 0724, 0731, 0754, 0797, 0812, 0814, 0837, 0860, 0889, 0890, 0902, 0961, 0977, 0984, 1065, 1093, 1094, 1098, 1113, 1116, 1123, 1164, 1166, 1172, 1178, 1180, 1223, 1230, 1231, 1244, 1246, 1250, 1253

## **REST, RESTING**

0007, 0383, 0384, 0705, 0811

## **SACCADIC**

0111, 0194, 0195, 0256, 0470, 0472, 0477, 0481, 0642, 0705, 0758, 0759, 0837, 0903, 0969

## **SCALING**

0175, 0176, 0590, 0795

## **SCHIZOPHRENIC, SCHIZOPHRENIA**

0004, 0060, 0061, 0118, 0129, 0161, 0162, 0300, 0430, 0432, 0433, 0435, 0436, 0472, 0476, 0481, 0631, 0641, 0642, 0643, 0645, 0653, 0703, 0705, 0846, 0943, 0965, 0969, 1011, 1024, 1051, 1060, 1110

## **SCORING**

0033, 0477, 0752, 0753, 0883

## **SECONDARY**

0455, 0710, 0756, 1175

## **SENSOR**

0135, 0169, 0258, 0277, 0342, 0663, 0703, 0840, 0847, 00850, 0856, 0967, 1027, 1112

## **SERVO**

0131, 0499, 0518, 0740, 0819, 1075

## **SEX**

0065, 0241, 0319, 0323, 0452, 0630, 0810, 0849, 1214, 1233, 1234

## **SIMULATE, SIMULATION**

0023, 0038, 0059, 0081, 0125, 0152, 0190, 0191, 0231, 0244, 0245, 0252, 0253, 0266, 0304, 0349, 0387, 0454, 0455, 0485, 0486, 0487, 0489, 0491, 0493, 0508, 0548, 0554, 0573, 0580, 0588, 0625, 0675, 0711, 0755, 0756, 0763, 0826, 0832, 0844, 0855, 0972, 0984, 0986, 0993, 1026, 1029, 1037, 1042, 1047, 1058, 1059, 1070, 1098, 1103, 1131, 1132, 1149, 1178, 1194, 1246

## **SINE-WAVE**

0864, 0865

## **SLEEP**

0133, 0197

## **SMOOTH**

0154, 0161, 0162, 0194, 0195, 0221, 0234, 0235, 0274, 0275, 0382, 0429, 0431, 0433, 0437, 0465, 0470, 0472, 0476, 0477, 0478, 0481, 0524, 0532, 0547, 0586, 0600, 0608, 0629, 0645, 0663, 0681, 0706, 0707, 0749, 0782, 0794, 0869, 0877, 0880, 0947, 0969, 1009, 1011, 1012, 1017, 1024, 1051, 1077, 1084, 1109, 1110, 1119, 1126, 1191, 1220, 1228, 1236, 1237

## **SPATIAL**

0426, 0439, 1126

## **STATIC**

0198, 0240, 0570, 0777, 1016

## **STEER, STEERING**

0420, 0485, 0487, 0573, 0591, 0661, 0678, 0722, 0833, 0911, 1030

## **STEP, STEPS**

0018, 0134, 0207, 0269, 0409, 0597, 0712, 1172, 1181, 1244, 1253

## **STEREO**

0167, 0615, 0670, 0817, 1092

## **STRESS**

0090, 0118, 0140, 0141, 0315, 0320, 0373, 0375, 0388, 0443, 0525, 0639, 0826, 0910, 1014, 1146, 1147, 1148, 1151, 1153, 1154

## **SUBJECTIVE**

0258, 0666, 0902

## **TACTILE**

0336, 0385, 0449, 0816, 0985

## **TARGET**

0033, 0043, 0045, 0046, 0077, 0111, 0132, 0135, 0137, 0139, 0201, 0302, 0335, 0353, 0419, 0424, 0558, 0565, 0586, 0592, 0597, 0598, 0600, 0612, 0644, 0704, 0725, 0746, 0768, 0770, 0786, 0815, 0823, 0908, 0909, 0917, 0926, 0927, 0944, 0964, 1014, 1016, 1059, 1084, 1089, 1096, 1104, 1127, 1128, 1155, 1159, 1161, 1162, 1169, 1176, 1223, 1228

## **TASK, TASKS, TASKING**

0001, 0005, 0013, 0020, 0023, 0026, 0032, 0037, 0062, 0064, 0065, 0080, 0089, 0090, 0094, 0123, 0139, 0140, 0151, 0159, 0165, 0183, 0190, 0199, 0208, 0219, 0222, 0223, 0225, 0227, 0232, 0252, 0281, 0293, 0314, 0316, 0319, 0327, 0328, 0329, 0330, 0331, 0338, 0339, 0341, 0343, 0351, 0355, 0356, 0359, 0364, 0366, 0369, 0379, 0386, 0389, 0390, 0395, 0396, 0404, 0406, 0412, 0425, 0426, 0444, 0448, 0449, 0455, 0464, 0469, 0481, 0482, 0496, 0512, 0513, 0514, 0526, 0531, 0533, 0536, 0540, 0549, 0557, 0567, 0581, 0588, 0589, 0590, 0594, 0595, 0603, 0661, 0683, 0690, 0694, 0696, 0710, 0717, 0724, 0726, 0736, 0755, 0756, 0767, 0787, 0788, 0799, 0812, 0815, 0818, 0820, 0826, 0849, 0852, 0860, 0868, 0917, 0940, 0945, 0949, 0970, 0991, 0994, 1008, 1009, 1015, 1039, 1042, 1052, 1055, 1068, 1072, 1073, 1087, 1088, 1099, 1110, 1115, 1116, 1125, 1128, 1137, 1146, 1147, 1148, 1151, 1158, 1171, 1175, 1193, 1195, 1202, 1203, 1204, 1206, 1217, 1218, 1224, 1231, 1256

## **TELEVISION**

0187, 0188, 0563, 0664, 0665, 0893

## **TERRAIN**

0774, 1040, 1041

## **TEST, TESTS, TESTING**

0053, 0060, 0061, 0098, 0117, 0189, 0243, 0257, 0289, 0315, 0357, 0358, 0378, 0480, 0526, 0582, 0695, 0912, 0965, 1131, 1143, 1226, 1246, 1251

## **THRESHOLD**

0794

## **TIME**

0014, 0051, 0073, 0089, 0090, 0092, 0110, 0115, 0117, 0119, 0125, 0132, 0133, 0157, 0166, 0222, 0226, 0231, 0261, 0265, 0326, 0360, 0364, 0396, 0414, 0418, 0453, 0464, 0481, 0513, 0514, 0588, 0632, 0639, 0700, 0710, 0711, 0734, 0755, 0756, 0797, 0801, 0817, 0839, 0856, 0894, 0920, 0925, 0953, 0964, 0982, 0983, 1000, 1039, 1052, 1123, 1125, 1158, 1165, 1167, 1208, 1210, 1211, 1212

## **TRAIN, TRAINING, TRAINED**

0125, 0156, 0157, 0165, 0192, 0203, 0205, 0216, 0217, 0245, 0266, 0273, 0285, 0294, 0360, 0361, 0387, 0428, 0450, 0454, 0504, 0528, 0555, 0577, 0623, 0660, 0694, 0700, 0718, 0770, 0804, 0818, 0821, 0888, 0919, 0921, 0963, 1029, 1037, 1067, 1206, 1221, 1235, 1247

## **TRAJECTORY**

1126, 1142

## **TRANSFER, TRANSFERENCE, TRANSFERAL**

0032, 0035, 0081, 0124, 0125, 0165, 0222, 0226, 0281, 0285, 0294, 0329, 0387, 0425, 0428, 0445, 0451, 0647, 0660, 0819, 0823, 0919, 0921, 1206, 1222, 1235

## **UNIPOLAR**

0475, 0652

## **VARIABLE, VARIABLES, VARIABILITY**

0003, 0011, 0028, 0047, 0068, 0110, 0149, 0265, 0306, 0361, 0362, 0383, 0384, 0420, 0421, 0441, 0529, 0573, 0811, 0815, 0823, 0833, 1000, 1055, 1204, 1251

## **VARIATION**

0614, 0918, 0919, 0920, 0921, 0922, 1049, 1135, 1183

## **VELOCITY**

0033, 0096, 0108, 0234, 0324, 0332, 0382, 0423, 0424, 0586, 0600, 0749, 0862, 0906, 0924, 0926, 0961, 1084, 1220, 1253

## **VIBRATION**

0022, 0105, 0142, 0197, 0242, 0369, 0373, 0427, 0447, 0521, 0656, 0657, 0726, 0937, 0938, 0950, 1185, 1225

## **VISION**

0006, 0240, 0500, 1118

## **VISUAL**

0023, 0026, 0040, 0055, 0086, 0100, 0101, 0146, 0147, 0157, 0180, 0186, 0190, 0197, 0230, 0234, 0276, 0291, 0300, 0302, 0345, 0347, 0352, 0353, 0354, 0371, 0387, 0392, 0422, 0448, 0450, 0460, 0461, 0462, 0463, 0496, 0497, 0517, 0528, 0538, 0539, 0541, 0544, 0545, 0558, 0588, 0638, 0663, 0685, 0689, 0698, 0701, 0702, 0704, 0750, 0755, 0756, 0757, 0769, 0776, 0791, 0809, 0815, 0824, 0846, 0854, 0855, 0859, 0868, 0878, 0904, 0917, 0936, 0959, 0985, 1008, 1045, 1047, 1057, 1076, 1077, 1078, 1090, 1102, 1119, 1155, 1160, 1167, 1169, 1170, 1193, 1247

## **WORKLOAD**

0146, 0175, 0176, 0614, 0717, 0779, 0928, 1049, 1202